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FIGURE 1B

OA

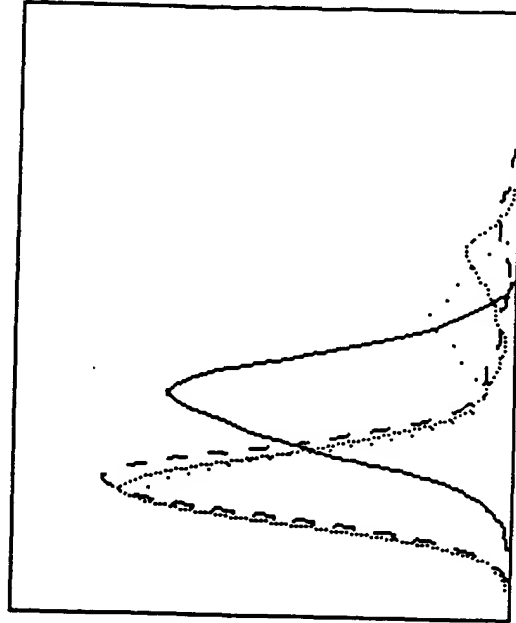
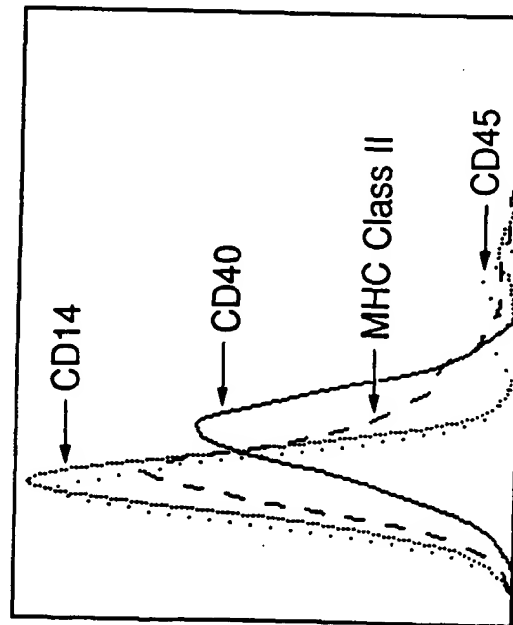


FIGURE 1A

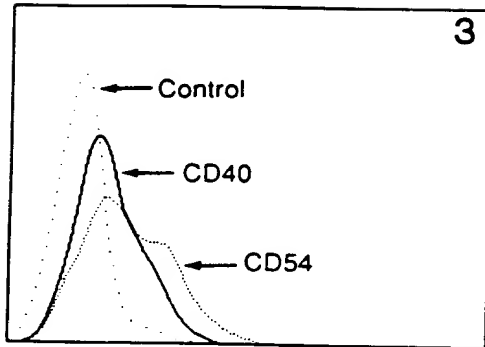
RA



**FIGURE 2A**

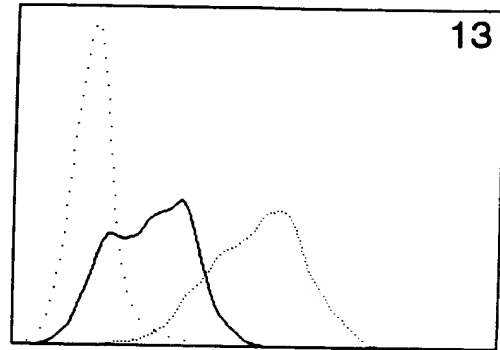
Resting

CCD  
965 SK



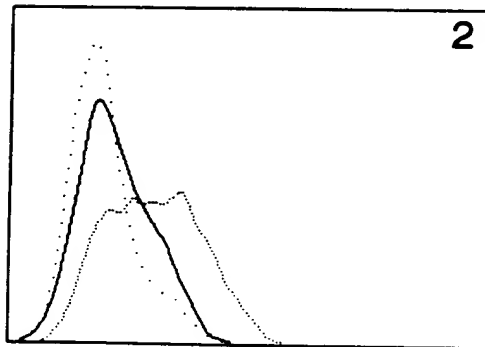
**FIGURE 2B**

$\gamma$  - INF

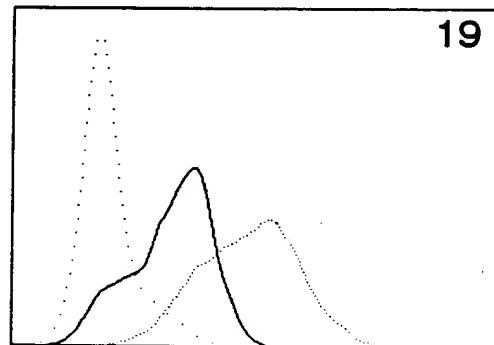


**FIGURE 2C**

SK.1

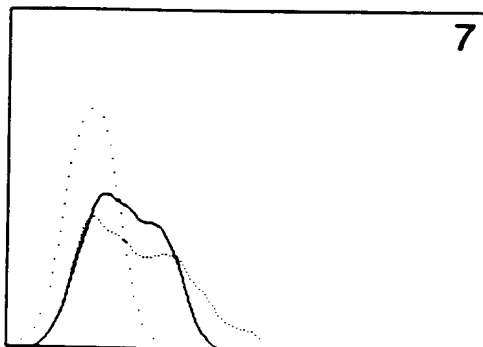


**FIGURE 2D**



**FIGURE 2E**

SK.2



**FIGURE 2F**

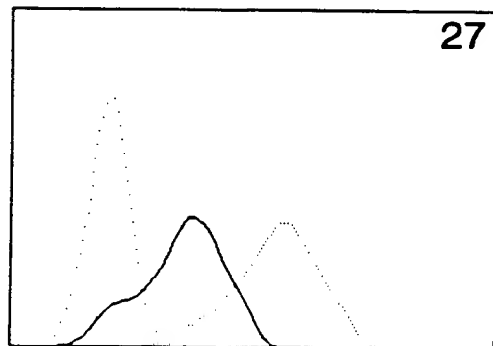
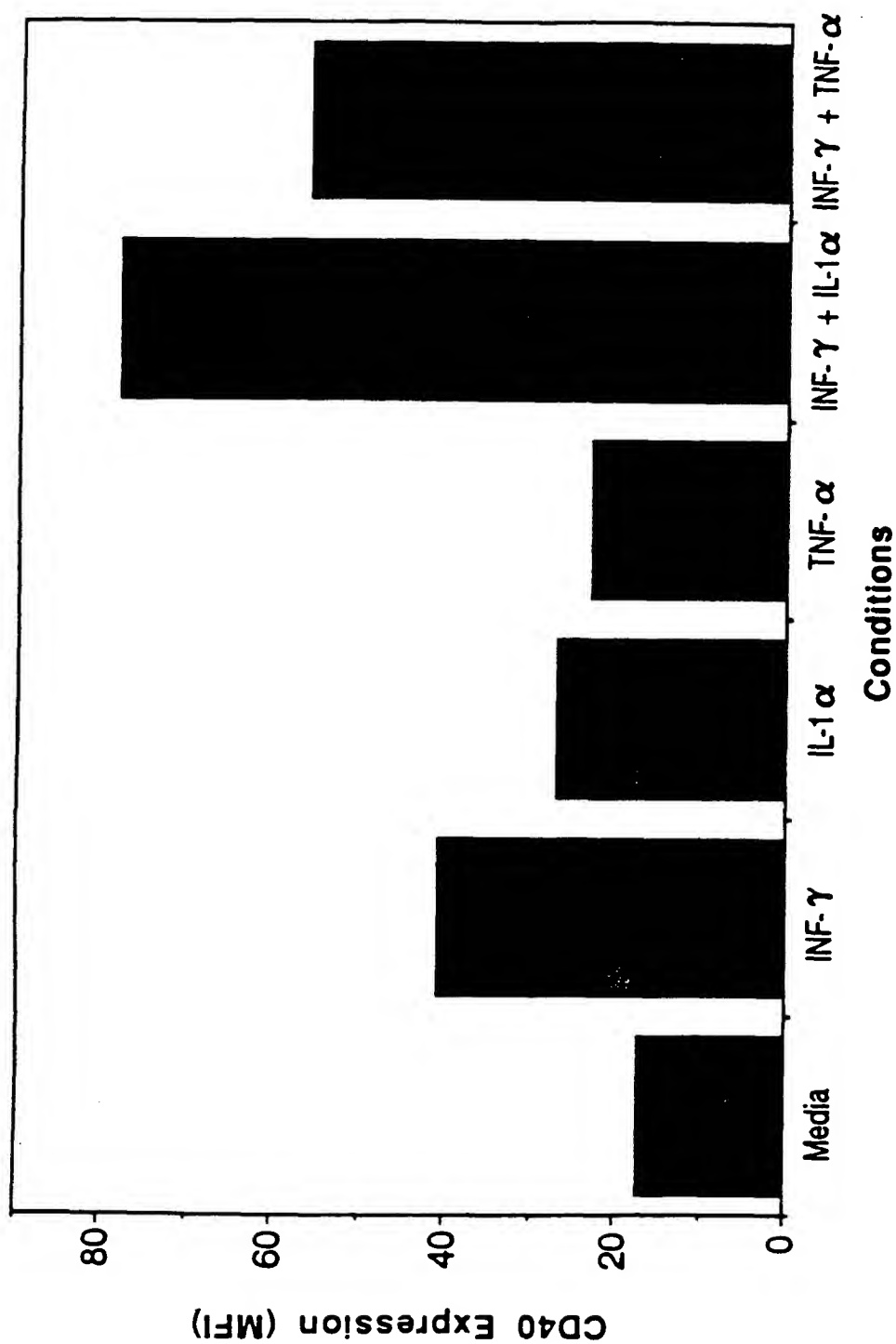


FIGURE 3



IA.1 cells plus:

Media

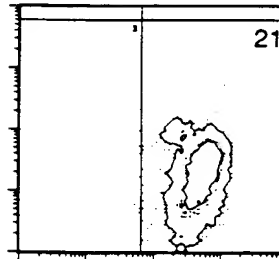


FIGURE 4A

D1.1

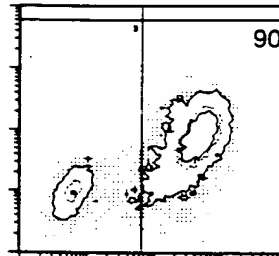


FIGURE 4B

D1.1  
+  
Anti-CD40L mAb

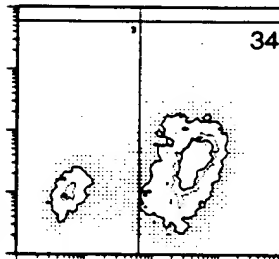


FIGURE 4C

D1.1  
+  
Isotype Control mAb

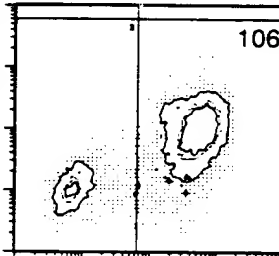


FIGURE 4D

B2.7

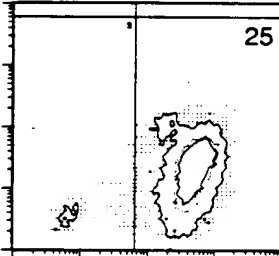


FIGURE 4E

INF- $\gamma$

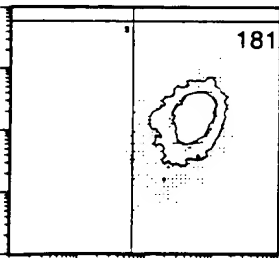
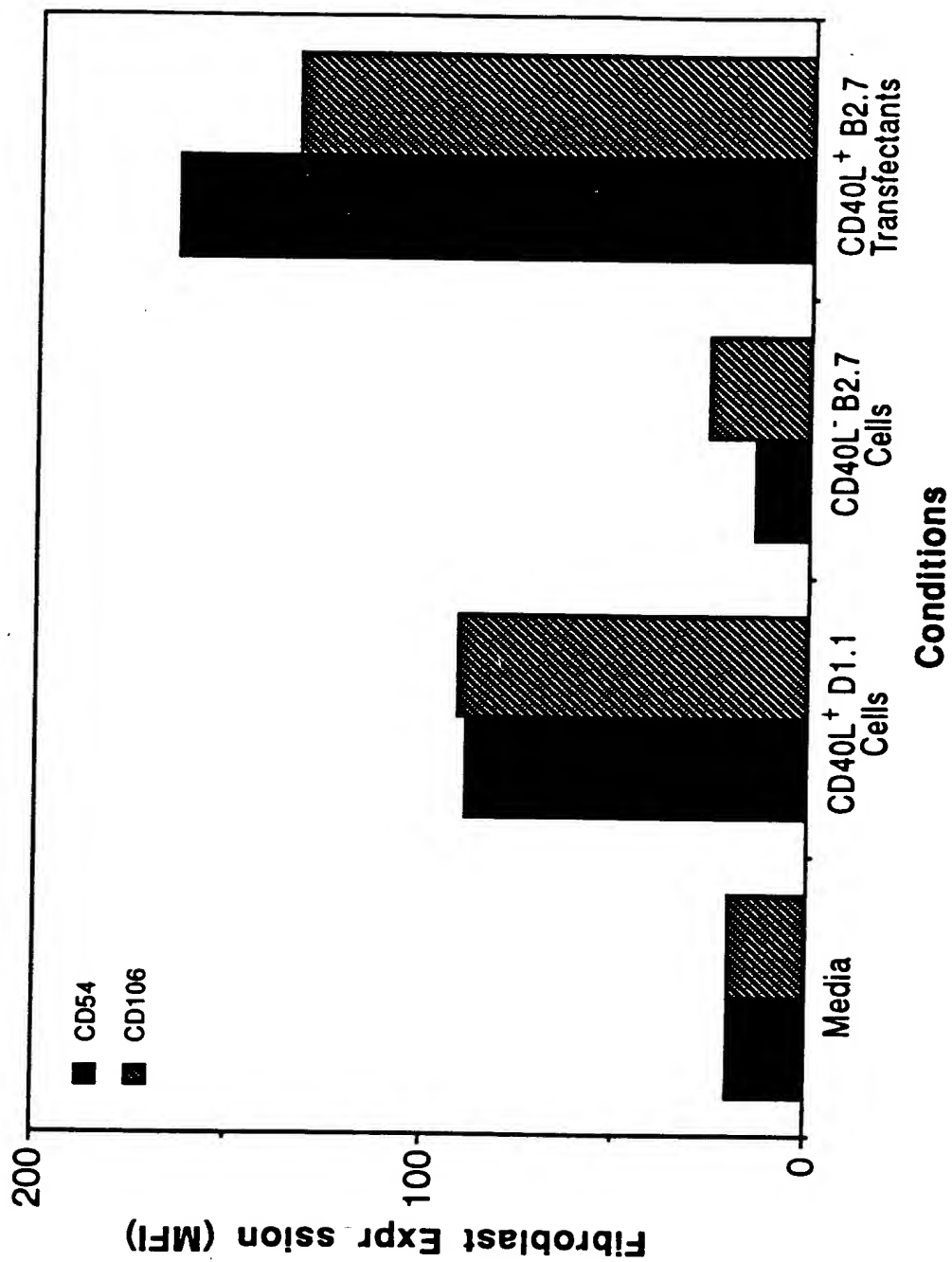


FIGURE 4F

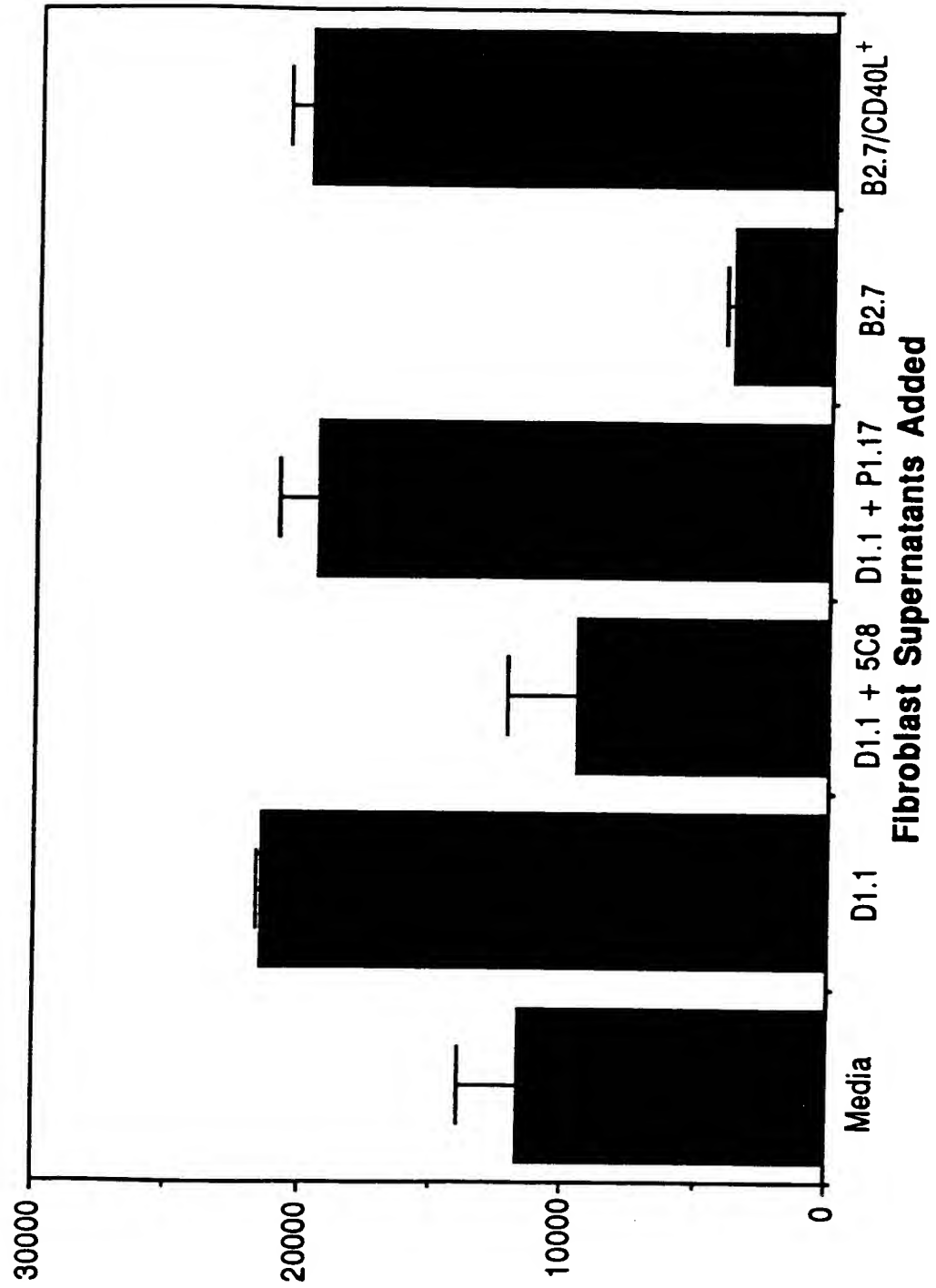
CD13 Fluorescence

CD54 Fluorescence

FIGURE 5



## B9 Proliferati n (CPM)



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FIGURE 6B

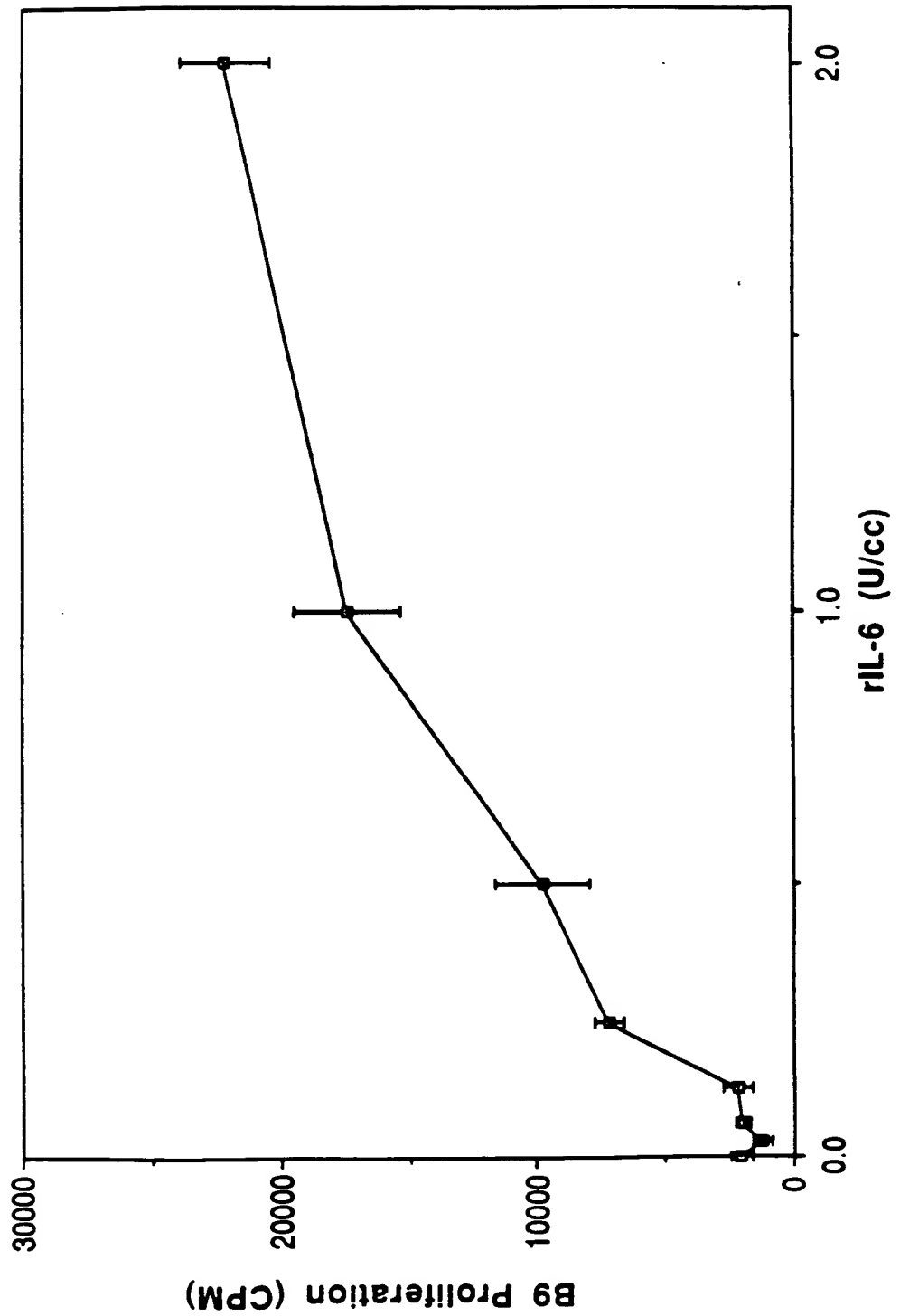


FIGURE 7

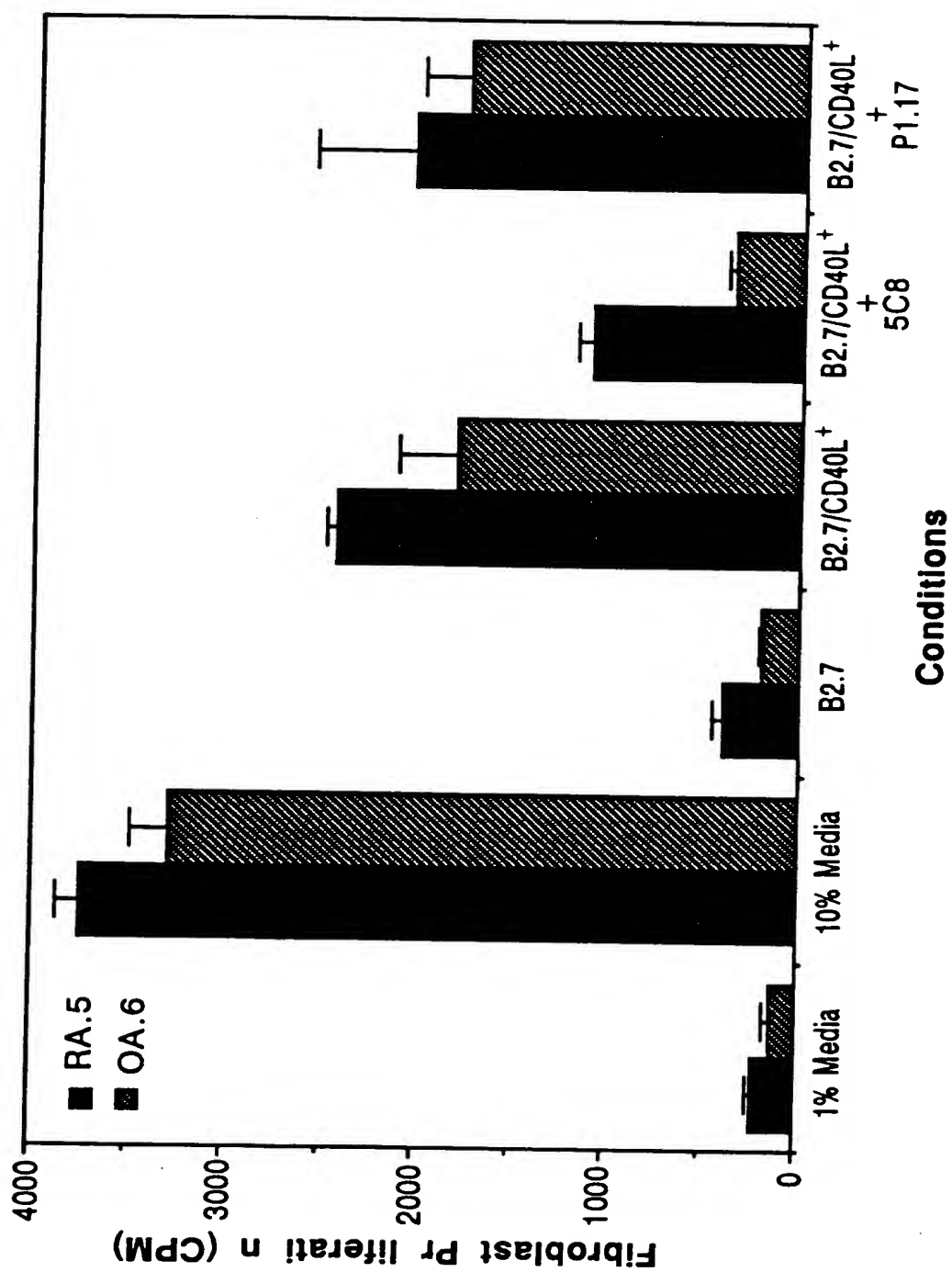
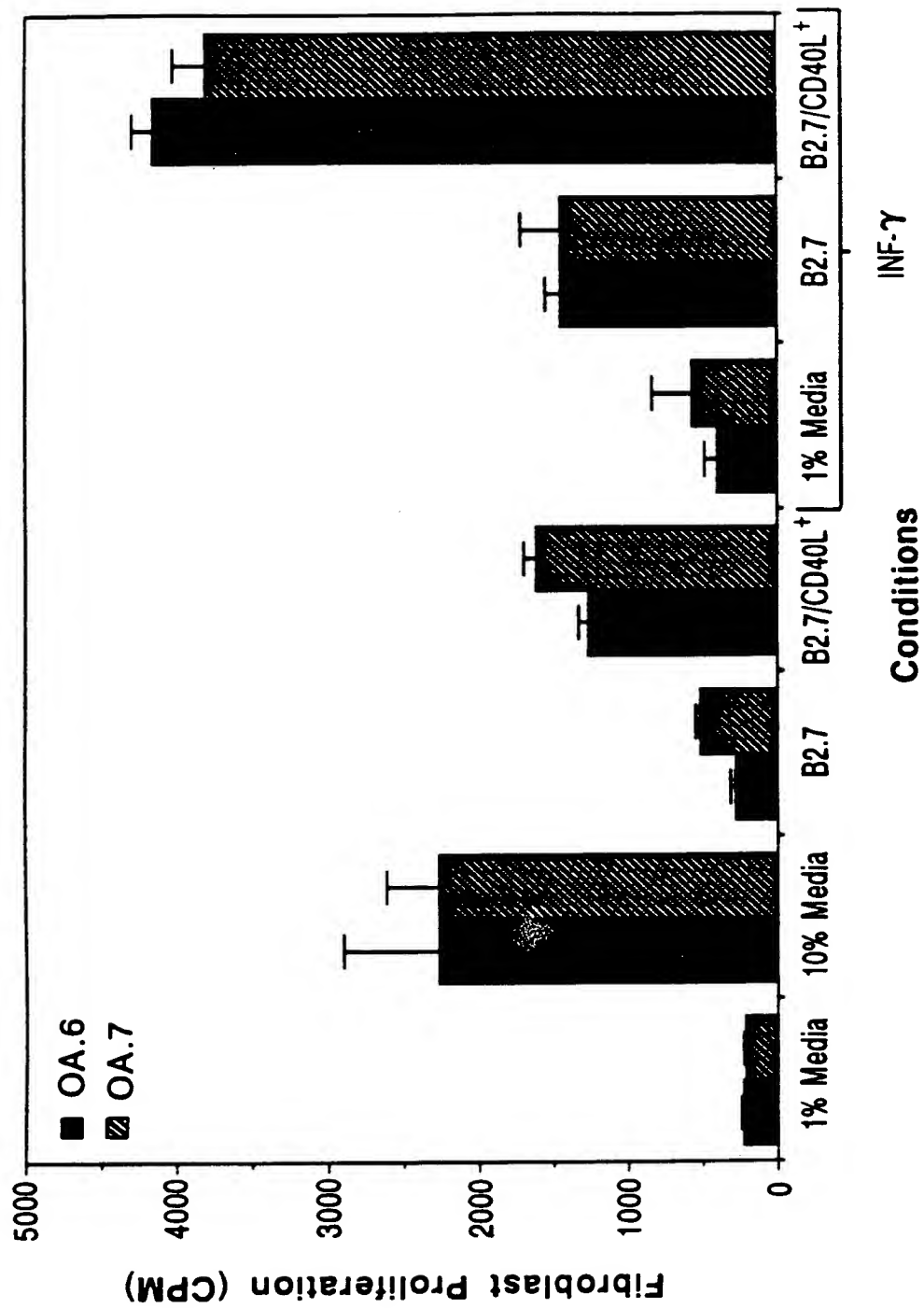
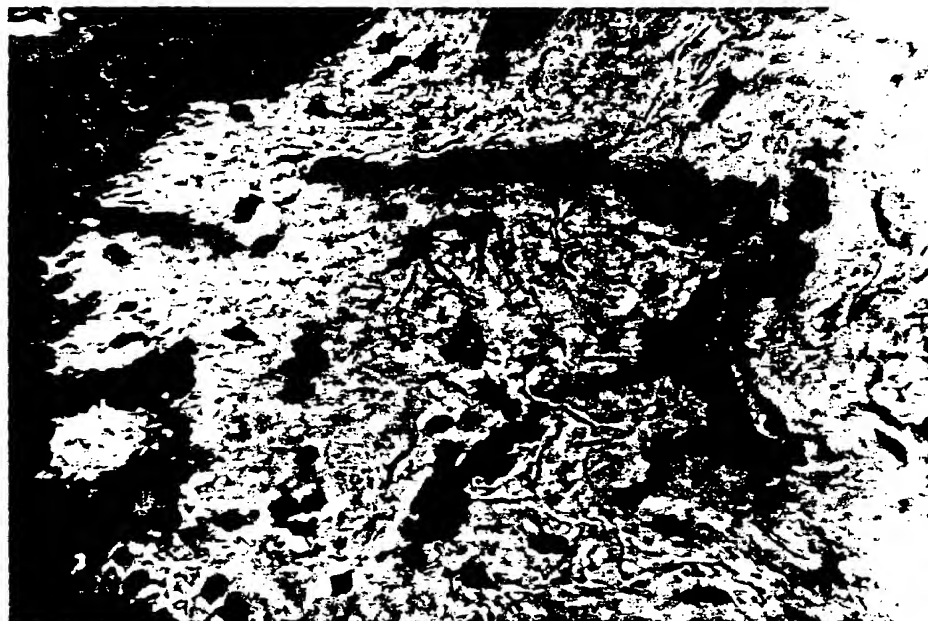




FIGURE 8



**FIGURE 9B**



**FIGURE 9A**

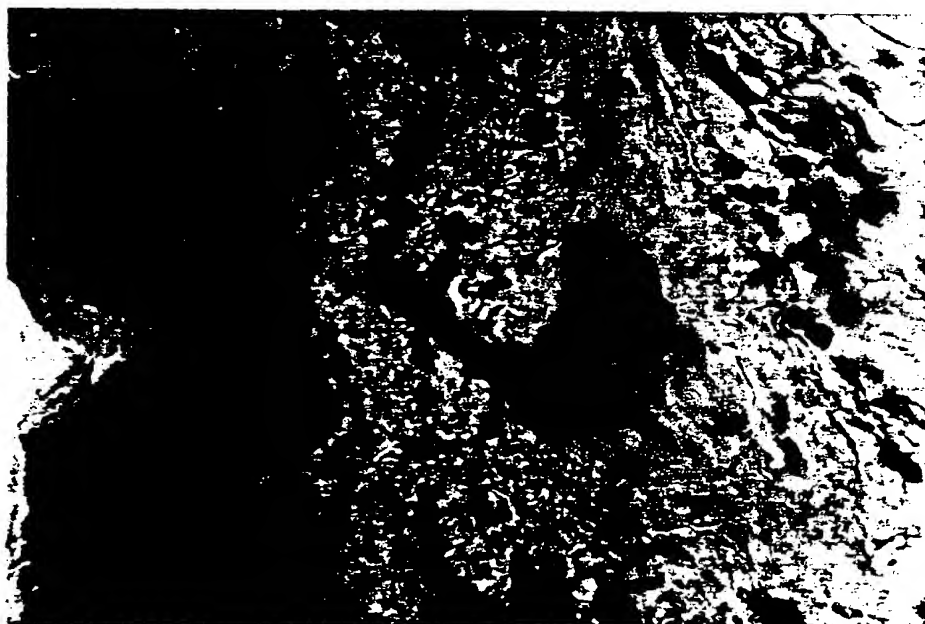


FIGURE 9D

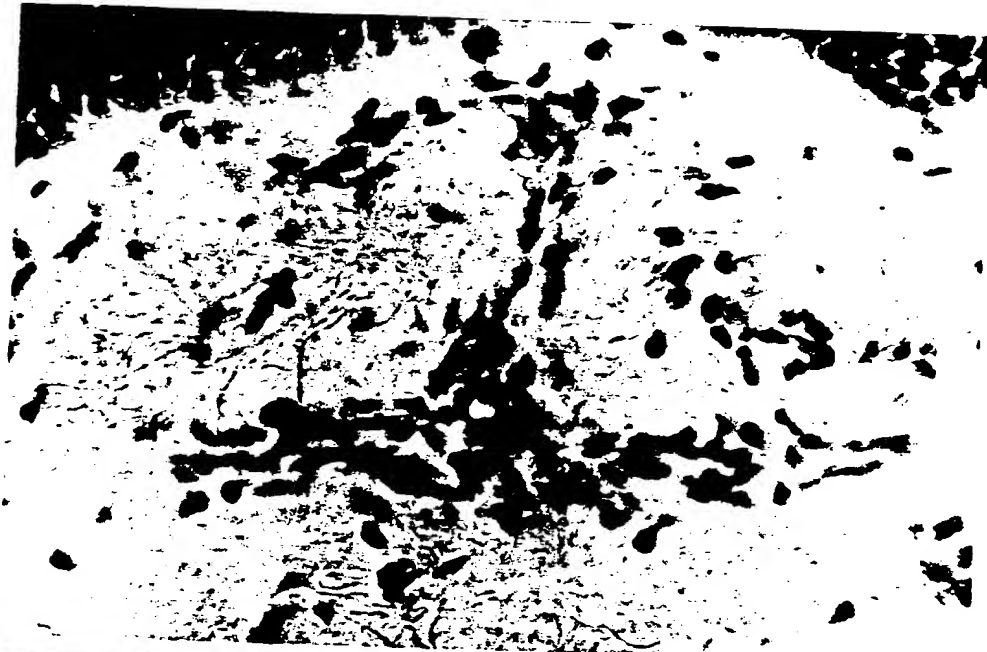
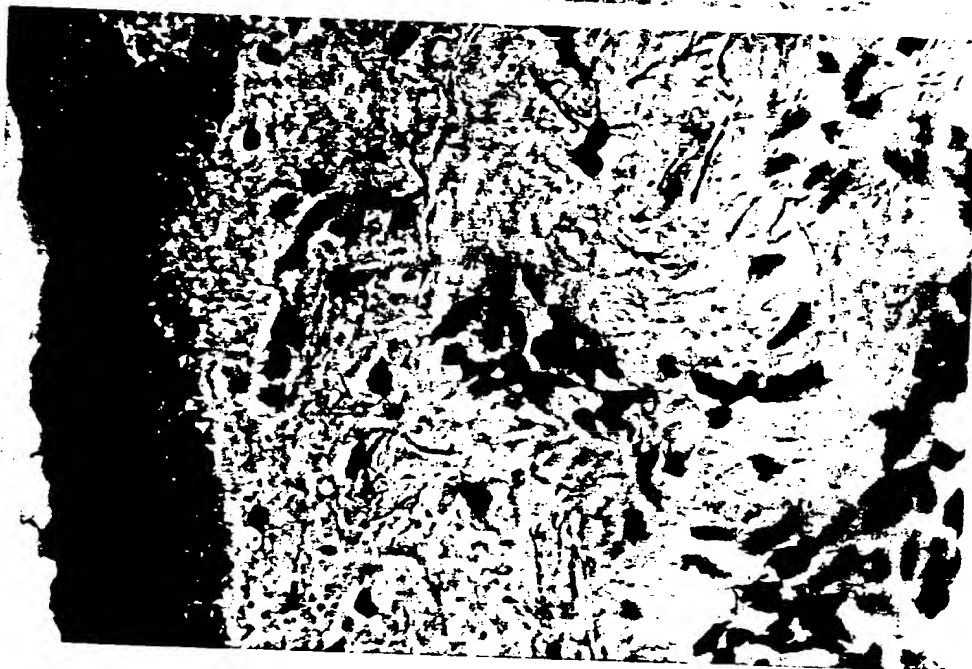


FIGURE 9C



000290" 47E21E60

FIGURE 10A



FIGURE 10B



666290" 4724200



FIGURE 11B

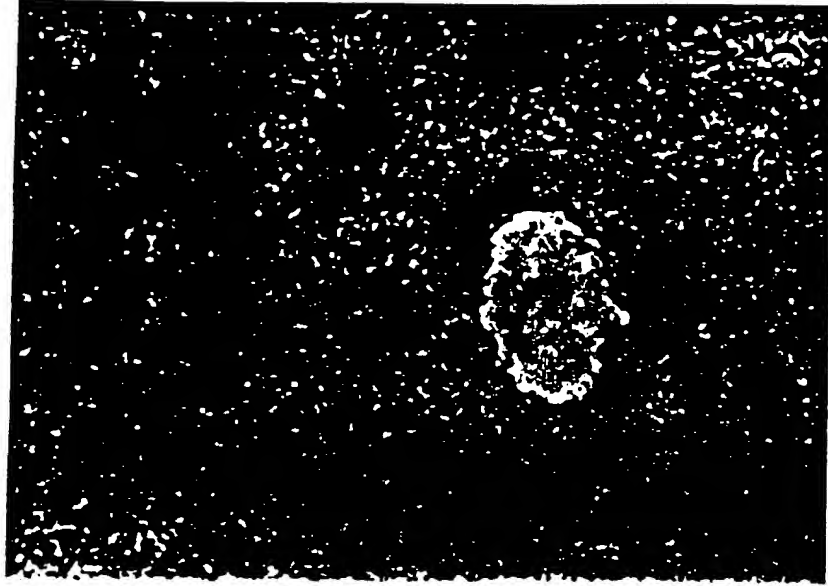
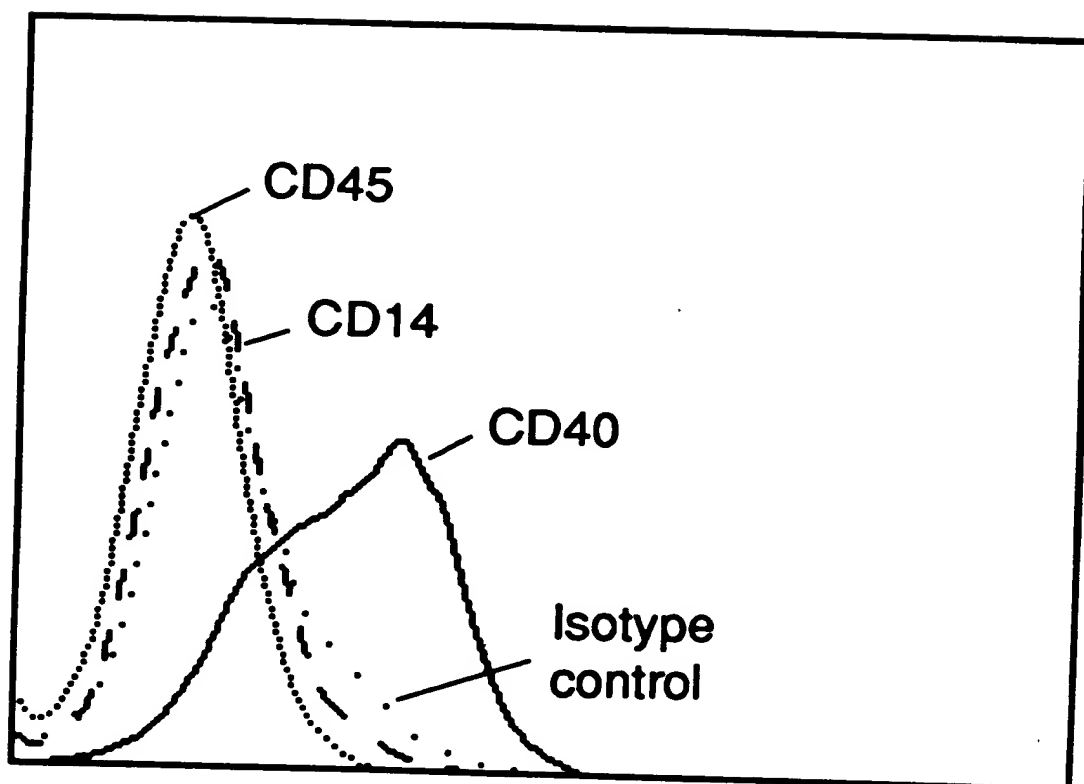


FIGURE 11A



666290"47661660

FIGURE 12



Stimulus	mAb
Media	-
riL-1	-
CD40L+ Jurkat D1.1	-
CD40L+ Jurkat D1.1	Anti- CD40L
CD40L+ Jurkat D1.1	Isotype control
CD40L- Jurkat B2.7	-

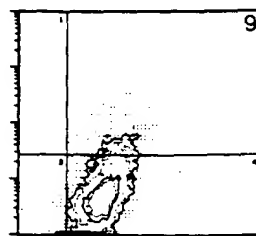


FIGURE 13A

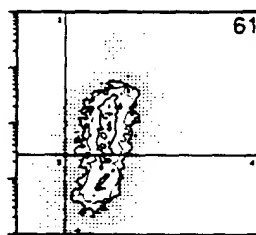


FIGURE 13B

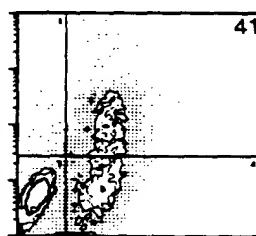


FIGURE 13C

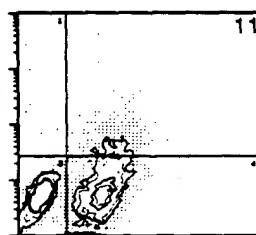


FIGURE 13D

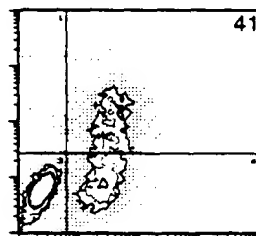


FIGURE 13E

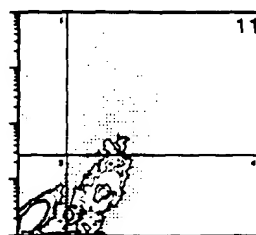


FIGURE 13F

CD13 Fluorescence

CD54 Fluorescence



FIGURE 14

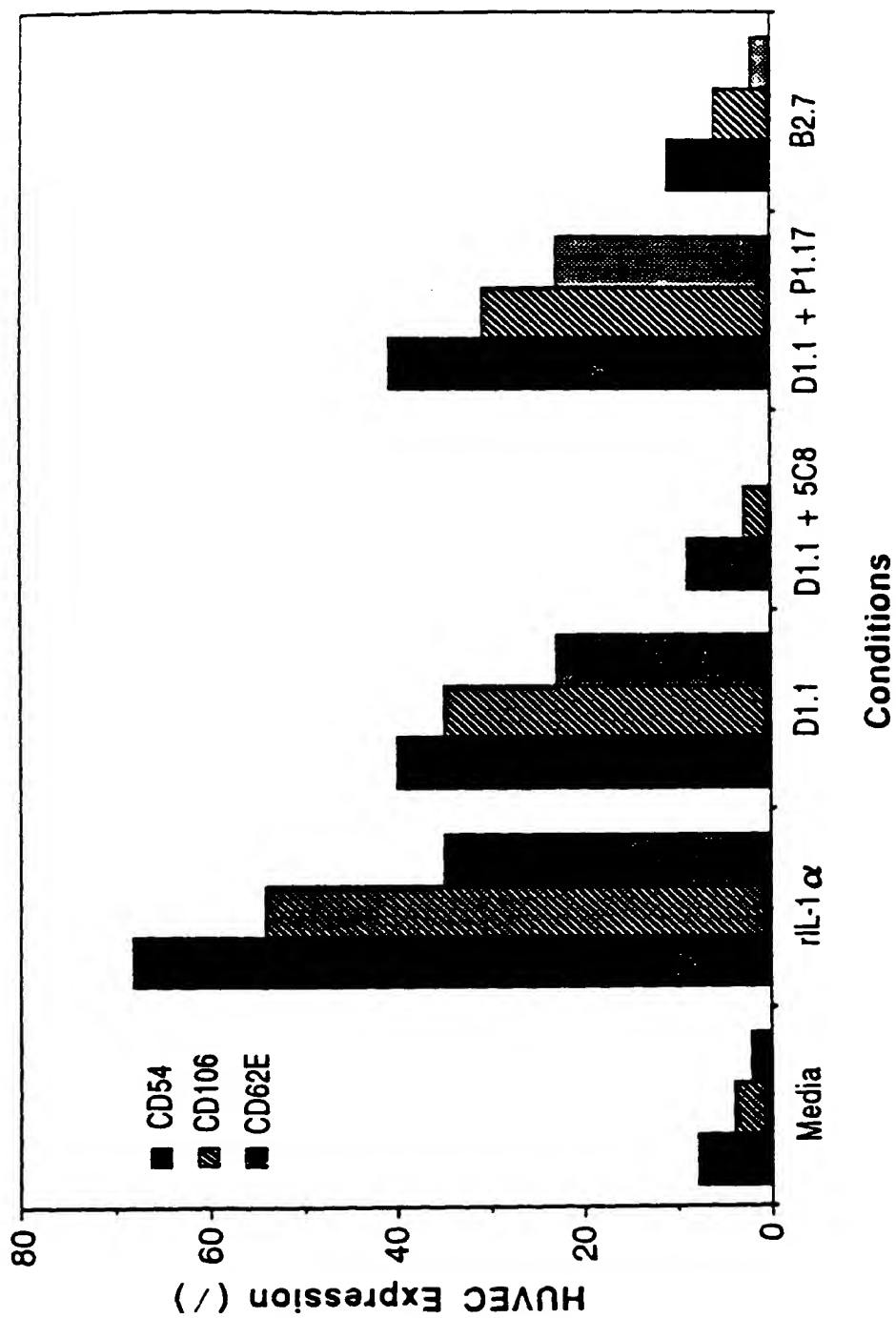


FIGURE 15A      FIGURE 15B      FIGURE 15C

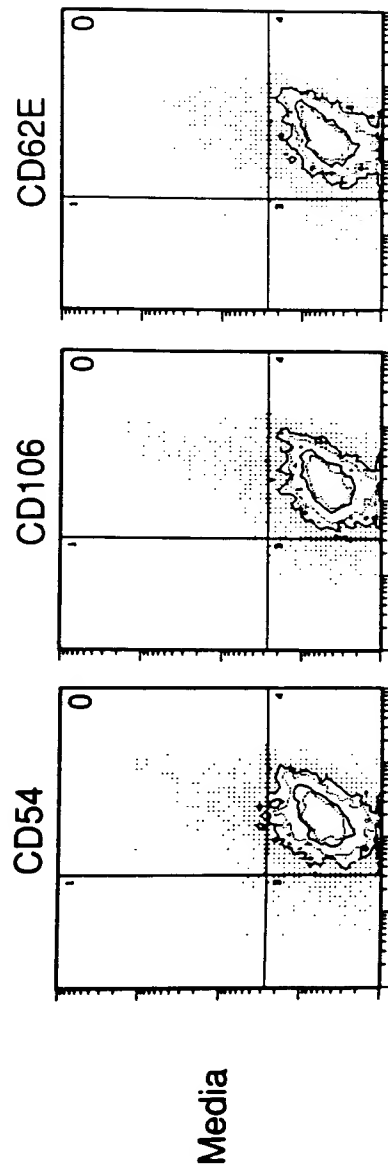
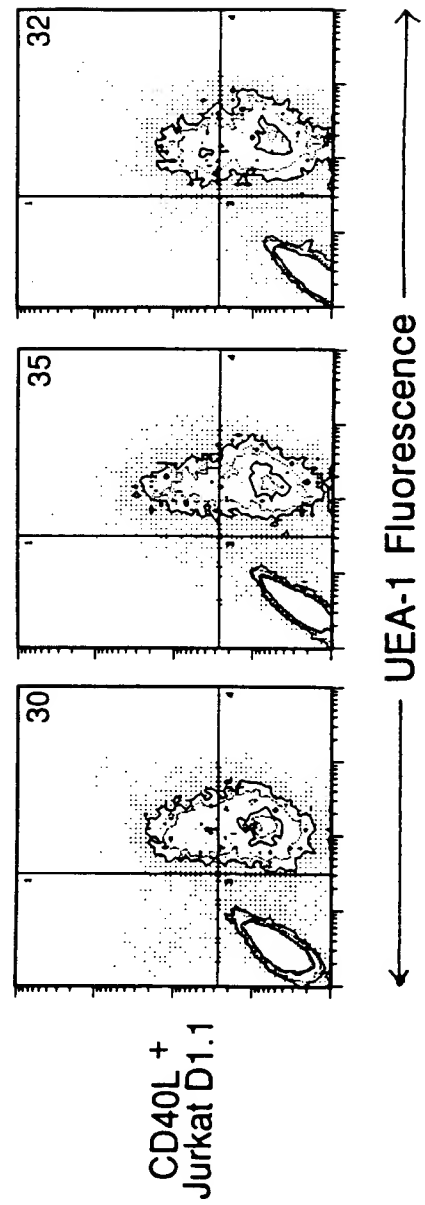
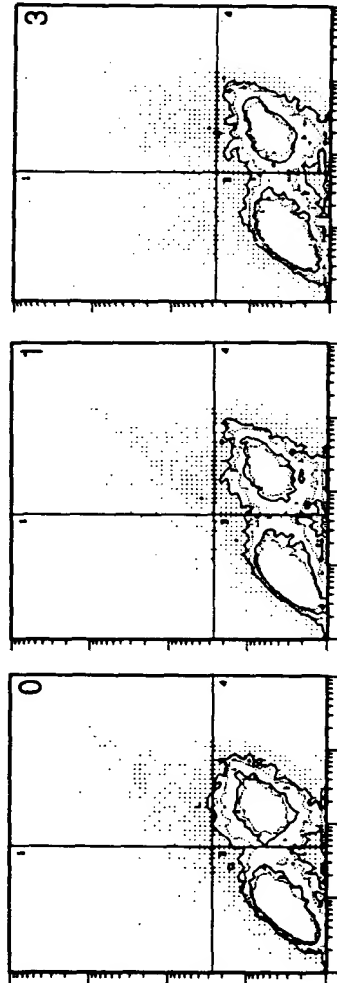


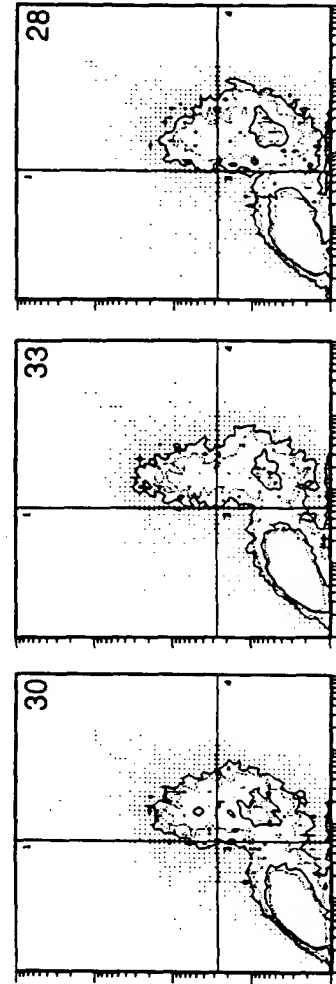
FIGURE 15D      FIGURE 15E      FIGURE 15F



**FIGURE 15G**



**FIGURE 15J**

CD40L + 293  
Transfectant

UEA-1 Fluorescence

FIGURE 16A

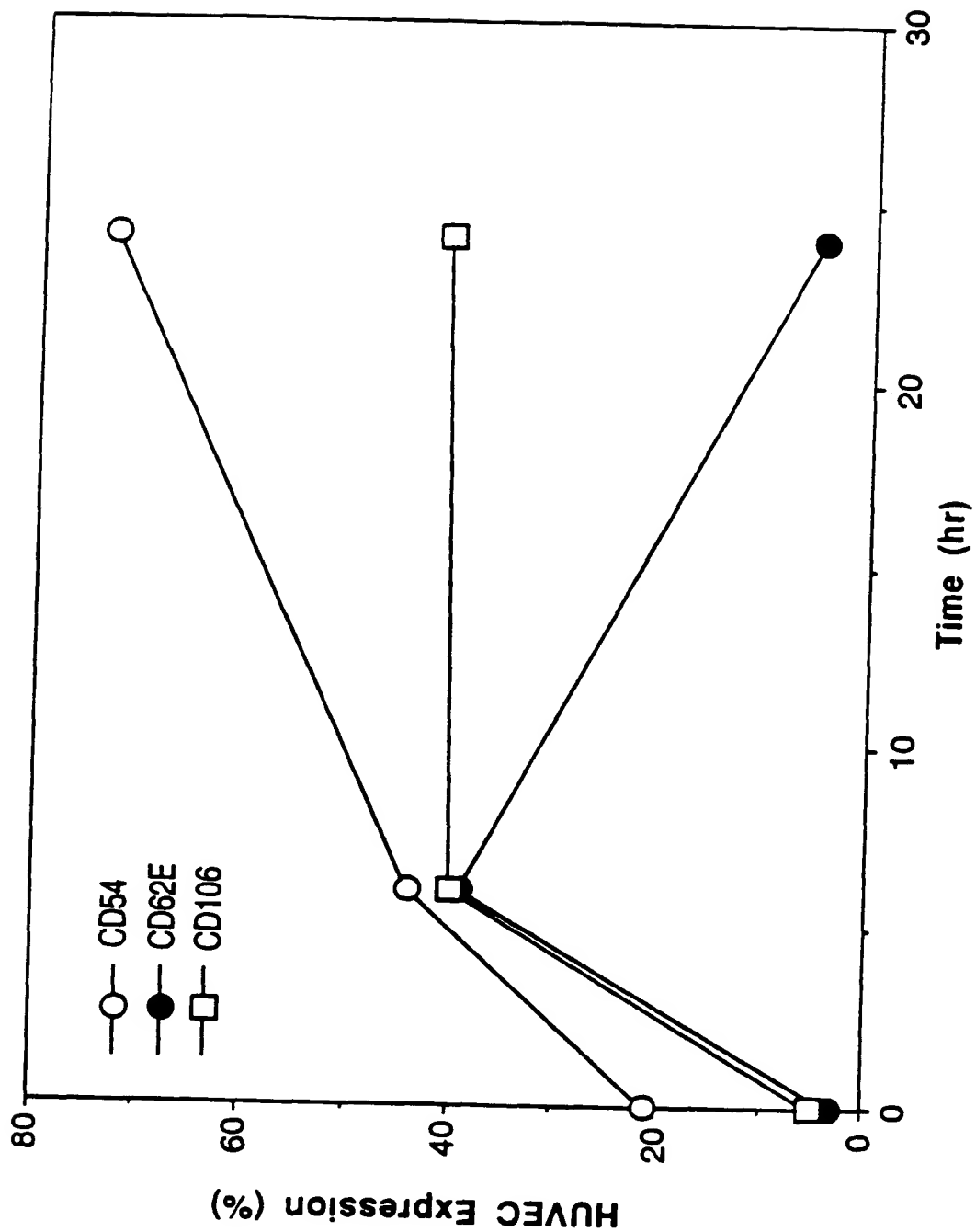
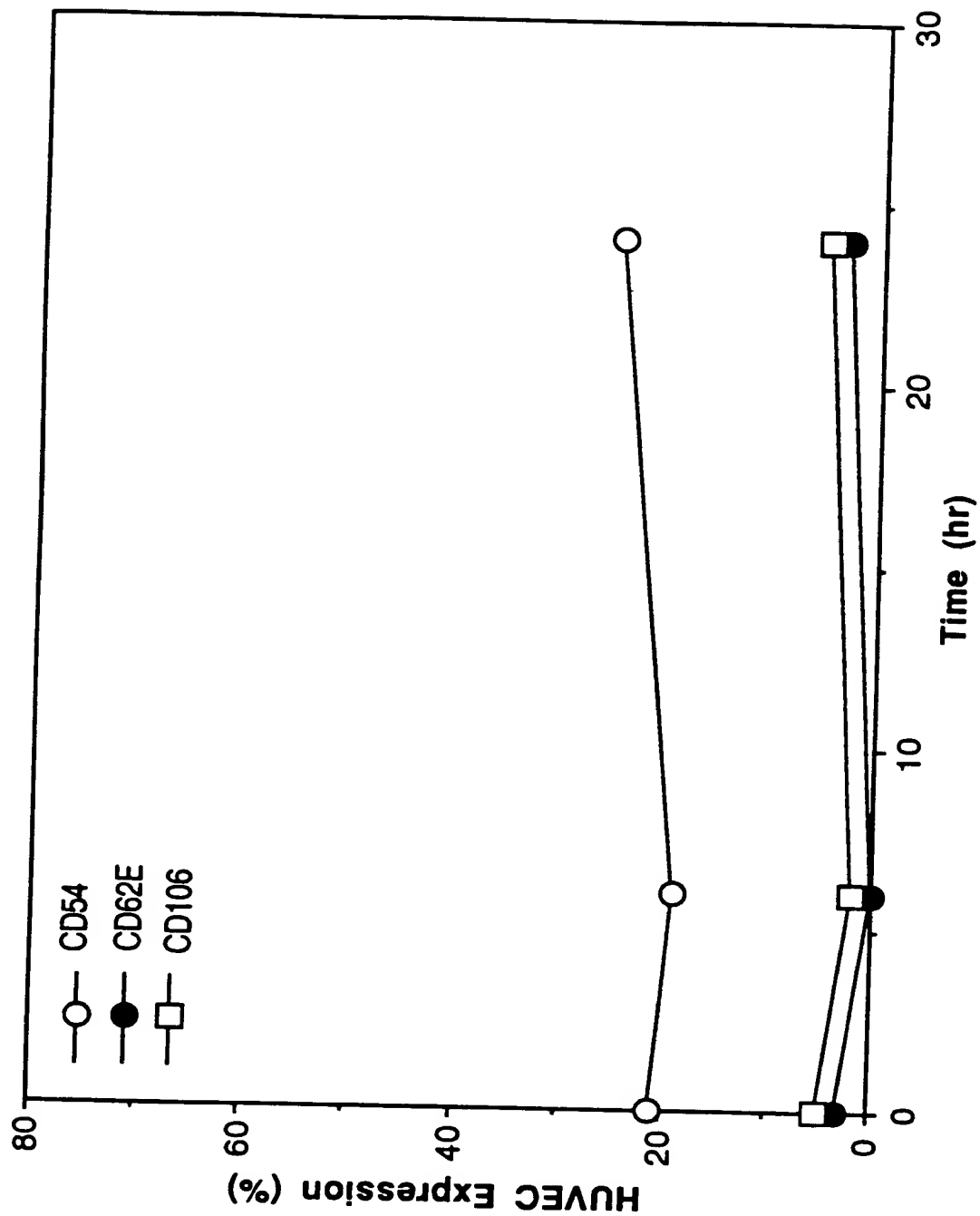


FIGURE 16B



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FIGURE 17A

REM'RKS ATOMIC COORDINATES OF CD40L CRYSTAL STRUCTURE IN PDB FORMAT

CRYST	77.170	77.170	90.460	90.00	90.00	120.00	R3	
ATOM	1	N	GLY	116	-7.954	-16.144	22.488	1.00 64.71 A
ATOM	2	HT1	GLY	116	-7.087	-15.852	21.964	1.00 15.00 A
ATOM	3	HT2	GLY	116	-8.082	-17.142	22.242	1.00 15.00 A
ATOM	4	HT3	GLY	116	-8.630	-15.576	21.928	1.00 15.00 A
ATOM	5	CA	GLY	116	-7.927	-15.755	23.928	1.00 64.37 A
ATOM	6	C	GLY	116	-6.990	-16.621	24.780	1.00 64.34 A
ATOM	7	O	GLY	116	-6.968	-17.814	24.563	1.00 64.44 A
ATOM	8	N	ASP	117	-6.238	-16.043	25.740	1.00 64.04 A
ATOM	9	H	ASP	117	-5.617	-16.709	26.170	1.00 15.00 A
ATOM	10	CA	ASP	117	-6.284	-14.616	26.130	1.00 63.57 A
ATOM	11	CB	ASP	117	-5.711	-14.402	27.539	1.00 63.36 A
ATOM	12	CG	ASP	117	-6.518	-15.163	28.574	1.00 63.71 A
ATOM	13	OD1	ASP	117	-6.090	-16.247	28.965	1.00 63.24 A
ATOM	14	OD2	ASP	117	-7.566	-14.668	28.987	1.00 63.29 A
ATOM	15	C	ASP	117	-5.651	-13.585	25.184	1.00 63.31 A
ATOM	16	O	ASP	117	-6.039	-12.427	25.145	1.00 63.35 A
ATOM	17	N	GLN	118	-4.713	-14.090	24.379	1.00 62.72 A
ATOM	18	H	GLN	118	-4.450	-15.040	24.541	1.00 15.00 A
ATOM	19	CA	GLN	118	-4.097	-13.313	23.281	1.00 61.79 A
ATOM	20	CB	GLN	118	-2.918	-14.117	22.687	1.00 62.46 A
ATOM	21	CG	GLN	118	-3.047	-15.659	22.562	1.00 62.95 A
ATOM	22	CD	GLN	118	-4.277	-16.118	21.790	1.00 63.26 A
ATOM	23	OE1	GLN	118	-5.396	-16.000	22.277	1.00 63.43 A
ATOM	24	NE2	GLN	118	-4.044	-16.665	20.601	1.00 63.42 A
ATOM	25	HE21	GLN	118	-4.836	-16.715	19.975	1.00 15.00 A
ATOM	26	HE22	GLN	118	-3.151	-16.995	20.298	1.00 15.00 A
ATOM	27	C	GLN	118	-4.999	-12.841	22.128	1.00 60.59 A
ATOM	28	O	GLN	118	-4.887	-13.379	21.052	1.00 60.79 A
ATOM	29	N	ASN	119	-5.912	-11.901	22.445	1.00 58.61 A
ATOM	30	H	ASN	119	-5.917	-11.600	23.389	1.00 15.00 A
ATOM	31	CA	ASN	119	-6.689	-11.222	21.386	1.00 56.39 A
ATOM	32	CB	ASN	119	-7.947	-11.982	20.936	1.00 56.95 A
ATOM	33	CG	ASN	119	-7.652	-13.352	20.375	1.00 57.45 A
ATOM	34	OD1	ASN	119	-7.941	-14.303	21.084	1.00 58.50 A
ATOM	35	ND2	ASN	119	-7.005	-13.431	19.241	1.00 58.58 A
ATOM	36	HD21	ASN	119	-6.843	-12.617	18.646	1.00 15.00 A
ATOM	37	HD22	ASN	119	-6.740	-14.221	18.684	1.00 15.00 A
ATOM	38	C	ASN	119	-7.053	-9.724	21.571	1.00 53.62 A
ATOM	39	O	ASN	119	-6.746	-8.933	20.694	1.00 56.55 A
ATOM	40	N	PRO	120	-7.737	-9.288	22.698	1.00 50.17 A
ATOM	41	CD	PRO	120	-8.151	-10.129	23.810	1.00 51.90 A
ATOM	42	CA	PRO	120	-8.402	-7.945	22.818	1.00 48.19 A
ATOM	43	CB	PRO	120	-9.191	-8.008	24.117	1.00 47.42 A
ATOM	44	CG	PRO	120	-9.444	-9.493	24.321	1.00 51.93 A
ATOM	45	C	PRO	120	-7.750	-6.524	22.657	1.00 45.59 A
ATOM	46	O	PRO	120	-8.187	-5.516	23.225	1.00 45.37 A
ATOM	47	N	GLN	121	-6.789	-6.458	21.721	1.00 38.52 A
ATOM	48	H	GLN	121	-6.287	-7.204	21.505	1.00 15.00 A
ATOM	49	CA	GLN	121	-6.733	-5.359	20.753	1.00 29.14 A
ATOM	50	CB	GLN	121	-5.454	-5.735	19.971	1.00 26.30 A
ATOM	51	CG	GLN	121	-5.128	-4.943	18.710	1.00 26.84 A
ATOM	52	CD	GLN	121	-4.923	-3.460	18.949	1.00 27.26 A
ATOM	53	OE1	GLN	121	-5.822	-2.668	18.709	1.00 28.66 A
ATOM	54	NE2	GLN	121	-3.717	-3.100	19.341	1.00 33.90 A
ATOM	55	HE21	GLN	121	2.883	-3.614	19.564	1.00 15.00 A
ATOM	56	HE22	GLN	121	-3.442	-2.138	19.204	1.00 15.00 A
ATOM	57	C	GLN	121	-8.065	-5.218	19.903	1.00 26.33 A
ATOM	58	O	GLN	121	-8.905	-6.097	19.834	1.00 21.41 A
ATOM	59	N	ILE	122	-8.288	-4.051	19.272	1.00 21.21 A

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FIGURE 17B

ATOM	60	H	ILE	122	-7.600	-3.320	19.337	1.00	15.00	A
ATOM	61	CA	ILE	122	-9.383	-3.952	18.295	1.00	20.92	A
ATOM	62	CB	ILE	122	-10.238	-2.629	18.396	1.00	22.17	A
ATOM	63	CG2	ILE	122	-11.275	-2.428	17.272	1.00	21.61	A
ATOM	64	CG1	ILE	122	-11.076	-2.744	19.668	1.00	24.13	A
ATOM	65	CD1	ILE	122	-11.751	-1.440	20.073	1.00	23.04	A
ATOM	66	C	ILE	122	-8.833	-4.108	16.895	1.00	18.96	A
ATOM	67	O	ILE	122	-8.135	-3.243	16.379	1.00	17.93	A
ATOM	68	N	ALA	123	-9.159	-5.240	16.283	1.00	14.72	A
ATOM	69	H	ALA	123	-9.599	-5.978	16.805	1.00	15.00	A
ATOM	70	CA	ALA	123	-8.656	-5.401	14.917	1.00	14.29	A
ATOM	71	CB	ALA	123	-7.176	-5.868	14.903	1.00	12.83	A
ATOM	72	C	ALA	123	-9.483	-6.315	13.985	1.00	15.66	A
ATOM	73	O	ALA	123	-10.170	-7.261	14.323	1.00	13.58	A
ATOM	74	N	ALA	124	-9.388	-6.009	12.724	1.00	13.45	A
ATOM	75	H	ALA	124	-8.894	-5.185	12.456	1.00	15.00	A
ATOM	76	CA	ALA	124	-10.087	-6.920	11.836	1.00	14.55	A
ATOM	77	CB	ALA	124	-11.486	-6.368	11.446	1.00	11.37	A
ATOM	78	C	ALA	124	-9.271	-7.123	10.563	1.00	13.54	A
ATOM	79	O	ALA	124	-8.501	-6.274	10.129	1.00	16.29	A
ATOM	80	N	HIS	125	-9.544	-8.248	9.937	1.00	11.49	A
ATOM	81	H	HIS	125	-10.100	-8.900	10.426	1.00	15.00	A
ATOM	82	CA	HIS	125	-9.100	-8.524	8.590	1.00	11.51	A
ATOM	83	CB	HIS	125	-7.605	-8.908	8.614	1.00	11.43	A
ATOM	84	CG	HIS	125	-7.119	-9.116	7.205	1.00	7.41	A
ATOM	85	ND1	HIS	125	-6.750	-8.130	6.421	1.00	6.60	A
ATOM	86	HD1	HIS	125	-6.708	-7.168	6.621	1.00	15.00	A
ATOM	87	CD2	HIS	125	-7.075	-10.291	6.456	1.00	12.36	A
ATOM	88	NE2	HIS	125	-6.670	-9.971	5.234	1.00	6.20	A
ATOM	89	CE1	HIS	125	-6.462	-8.646	5.211	1.00	4.48	A
ATOM	90	C	HIS	125	-10.024	-9.570	7.931	1.00	12.63	A
ATOM	91	O	HIS	125	-10.324	-10.650	8.383	1.00	13.14	A
ATOM	92	N	VAL	126	-10.550	-9.129	6.806	1.00	15.65	A
ATOM	93	H	VAL	126	-10.169	-8.286	6.428	1.00	15.00	A
ATOM	94	CA	VAL	126	-11.743	-9.717	6.201	1.00	14.38	A
ATOM	95	CB	VAL	126	-12.877	-8.808	6.675	1.00	13.37	A
ATOM	96	CG1	VAL	126	-13.794	-9.722	7.379	1.00	12.60	A
ATOM	97	CG2	VAL	126	-13.449	-7.663	5.814	1.00	9.61	A
ATOM	98	C	VAL	126	-11.502	-9.971	4.685	1.00	16.03	A
ATOM	99	O	VAL	126	-10.684	-9.297	4.074	1.00	16.42	A
ATOM	100	N	ILE	127	-12.118	-11.013	4.136	1.00	15.99	A
ATOM	101	H	ILE	127	-12.807	-11.481	4.691	1.00	15.00	A
ATOM	102	CA	ILE	127	-11.651	-11.532	2.831	1.00	14.86	A
ATOM	103	CB	ILE	127	-11.414	-13.051	3.002	1.00	17.56	A
ATOM	104	CG2	ILE	127	-11.716	-13.910	1.765	1.00	17.17	A
ATOM	105	CG1	ILE	127	-9.972	-13.316	3.399	1.00	16.47	A
ATOM	106	CD1	ILE	127	-9.705	-12.992	4.864	1.00	19.64	A
ATOM	107	C	ILE	127	-12.691	-11.269	1.765	1.00	18.96	A
ATOM	108	O	ILE	127	-13.898	-11.391	2.016	1.00	20.01	A
ATOM	109	N	SER	128	-12.229	-10.882	0.581	1.00	17.54	A
ATOM	110	H	SER	128	-11.232	-10.871	0.382	1.00	15.00	A
ATOM	111	CA	SER	128	-13.274	-10.667	-0.437	1.00	15.55	A
ATOM	112	CB	SER	128	-12.664	-10.130	-1.706	1.00	18.16	A
ATOM	113	OG	SER	128	-12.205	-11.207	-2.574	1.00	19.90	A
ATOM	114	HG	SER	128	-11.832	-11.931	-2.029	1.00	15.00	A
ATOM	115	C	SER	128	-14.295	-11.761	-0.792	1.00	13.62	A
ATOM	116	O	SER	128	-14.052	-12.960	-0.832	1.00	8.98	A
ATOM	117	N	GLU	129	-15.492	-11.246	-1.027	1.00	13.36	A
ATOM	118	H	GLU	129	-15.661	-10.257	-0.937	1.00	15.00	A
ATOM	119	CA	GLU	129	-16.379	-12.024	-1.840	1.00	17.20	A

66250 "filed"

**FIGURE 17C**

ATOM	120	CB	GLU	129	-17.052	-13.117	-1.021	1.00	20.55	A
ATOM	121	CG	GLU	129	-18.092	-12.694	-0.036	1.00	17.92	A
ATOM	122	CD	GLU	129	-18.781	-13.951	0.376	1.00	21.98	A
ATOM	123	OE1	GLU	129	-19.997	-13.932	0.368	1.00	32.23	A
ATOM	124	OE2	GLU	129	-18.150	-14.938	0.734	1.00	33.12	A
ATOM	125	C	GLU	129	-17.371	-11.409	-2.809	1.00	17.71	A
ATOM	126	O	GLU	129	-17.972	-10.389	-2.553	1.00	21.59	A
ATOM	127	N	ALA	130	-17.550	-12.145	-3.914	1.00	20.52	A
ATOM	128	H	ALA	130	-17.136	-13.057	-3.923	1.00	15.00	A
ATOM	129	CA	ALA	130	-18.379	-11.649	-5.019	1.00	23.36	A
ATOM	130	CB	ALA	130	-18.424	-12.633	-6.208	1.00	19.66	A
ATOM	131	C	ALA	130	-19.811	-11.298	-4.570	1.00	26.86	A
ATOM	132	O	ALA	130	-20.519	-12.022	-3.869	1.00	29.40	A
ATOM	133	N	SER	131	-20.198	-10.086	-4.968	1.00	21.70	A
ATOM	134	H	SER	131	-19.515	-9.481	-5.410	1.00	15.00	A
ATOM	135	CA	SER	131	-21.592	-9.782	-4.732	1.00	20.04	A
ATOM	136	CB	SER	131	-21.829	-8.266	-4.787	1.00	20.65	A
ATOM	137	OG	SER	131	-23.182	-8.001	-4.435	1.00	15.24	A
ATOM	138	HG	SER	131	-23.329	-7.069	-4.559	1.00	15.00	A
ATOM	139	C	SER	131	-22.546	-10.501	-5.668	1.00	17.15	A
ATOM	140	O	SER	131	-22.236	-10.853	-6.786	1.00	14.30	A
ATOM	141	N	SER	132	-23.756	-10.731	-5.187	1.00	20.15	A
ATOM	142	H	SER	132	-23.967	-10.586	-4.209	1.00	15.00	A
ATOM	143	CA	SER	132	-24.674	-11.250	-6.218	1.00	21.62	A
ATOM	144	CB	SER	132	-25.266	-12.616	-5.893	1.00	16.00	A
ATOM	145	OG	SER	132	-26.203	-12.324	-4.894	1.00	23.84	A
ATOM	146	HG	SER	132	-26.016	-12.944	-4.179	1.00	15.00	A
ATOM	147	C	SER	132	-25.727	-10.268	-6.671	1.00	20.07	A
ATOM	148	O	SER	132	-26.535	-10.544	-7.547	1.00	20.27	A
ATOM	149	N	LYS	133	-25.606	-9.063	-6.118	1.00	21.87	A
ATOM	150	H	LYS	133	-24.904	-8.969	-5.397	1.00	15.00	A
ATOM	151	CA	LYS	133	-26.406	-7.916	-6.517	1.00	19.23	A
ATOM	152	CB	LYS	133	-27.024	-7.309	-5.256	1.00	23.08	A
ATOM	153	CG	LYS	133	-27.684	-8.364	-4.354	1.00	21.07	A
ATOM	154	CD	LYS	133	-29.174	-8.110	-4.320	1.00	27.36	A
ATOM	155	CE	LYS	133	-29.939	-7.884	-5.670	1.00	30.56	A
ATOM	156	NZ	LYS	133	-31.323	-7.515	-5.345	1.00	21.56	A
ATOM	157	HZ1	LYS	133	-31.862	-7.351	-6.218	1.00	15.00	A
ATOM	158	HZ2	LYS	133	-31.753	-8.299	-4.811	1.00	15.00	A
ATOM	159	HZ3	LYS	133	-31.333	-6.654	-4.760	1.00	15.00	A
ATOM	160	C	LYS	133	-25.579	-6.876	-7.194	1.00	20.10	A
ATOM	161	O	LYS	133	-24.378	-6.801	-7.007	1.00	17.94	A
ATOM	162	N	THR	134	-26.260	-6.052	-7.983	1.00	22.95	A
ATOM	163	H	THR	134	-27.275	-6.130	-8.036	1.00	15.00	A
ATOM	164	CA	THR	134	-25.556	-4.879	-8.561	1.00	27.89	A
ATOM	165	CB	THR	134	-26.498	-4.274	-9.592	1.00	24.59	A
ATOM	166	OG1	THR	134	-26.540	-5.037	-10.792	1.00	24.32	A
ATOM	167	HG1	THR	134	-26.232	-4.411	-11.456	1.00	15.00	A
ATOM	168	CG2	THR	134	-26.044	-2.897	-9.968	1.00	22.97	A
ATOM	169	C	THR	134	-24.987	-3.798	-7.559	1.00	32.51	A
ATOM	170	O	THR	134	-25.658	-3.461	-6.603	1.00	38.43	A
ATOM	171	N	THR	135	-23.717	-3.352	-7.690	1.00	35.98	A
ATOM	172	H	THR	135	-23.292	-3.555	-8.585	1.00	15.00	A
ATOM	173	CA	THR	135	-22.964	-3.469	-6.386	1.00	36.02	A
ATOM	174	CB	THR	135	-21.575	-4.276	-6.534	1.00	36.01	A
ATOM	175	OG1	THR	135	-21.645	-5.388	-7.488	1.00	30.60	A
ATOM	176	HG1	THR	135	-22.255	-6.094	-7.312	1.00	15.00	A
ATOM	177	CG2	THR	135	-20.866	-4.776	-5.264	1.00	35.55	A
ATOM	178	C	THR	135	-22.949	-2.266	-5.404	1.00	30.25	A
ATOM	179	O	THR	135	-23.541	-2.348	-4.331	1.00	28.35	A



**FIGURE 17D**

ATOM	180	N	SER	136	-22.294	-1.146	-5.776	1.00	23.29	A
ATOM	181	H	SER	136	-22.828	-0.357	-5.460	1.00	15.00	A
ATOM	182	CA	SER	136	-20.857	-1.051	-6.143	1.00	23.04	A
ATOM	183	CB	SER	136	-20.560	0.187	-6.965	1.00	21.03	A
ATOM	184	OG	SER	136	-20.624	1.261	-6.043	1.00	28.21	A
ATOM	185	HG	SER	136	-19.815	1.793	-6.008	1.00	15.00	A
ATOM	186	C	SER	136	-19.853	-1.090	-4.958	1.00	21.77	A
ATOM	187	O	SER	136	-18.630	-1.096	-5.080	1.00	21.94	A
ATOM	188	N	VAL	137	-20.452	-1.227	-3.752	1.00	24.03	A
ATOM	189	H	VAL	137	-21.440	-1.063	-3.705	1.00	15.00	A
ATOM	190	CA	VAL	137	-19.699	-1.632	-2.570	1.00	19.65	A
ATOM	191	CB	VAL	137	-20.218	-1.010	-1.248	1.00	21.14	A
ATOM	192	CG1	VAL	137	-20.419	-1.907	-0.058	1.00	18.16	A
ATOM	193	CG2	VAL	137	-21.322	-0.026	-1.442	1.00	13.49	A
ATOM	194	C	VAL	137	-19.370	-3.116	-2.473	1.00	17.15	A
ATOM	195	O	VAL	137	-20.209	-3.969	-2.593	1.00	16.69	A
ATOM	196	N	LEU	138	-18.077	-3.344	-2.271	1.00	15.84	A
ATOM	197	H	LEU	138	-17.502	-2.528	-2.246	1.00	15.00	A
ATOM	198	CA	LEU	138	-17.507	-4.667	-1.938	1.00	18.21	A
ATOM	199	CB	LEU	138	-15.962	-4.530	-1.791	1.00	13.60	A
ATOM	200	CG	LEU	138	-15.273	-3.854	-2.998	1.00	16.09	A
ATOM	201	CD1	LEU	138	-15.923	-4.379	-4.300	1.00	20.35	A
ATOM	202	CD2	LEU	138	-13.710	-3.936	-2.982	1.00	12.34	A
ATOM	203	C	LEU	138	-18.170	-5.480	-0.772	1.00	16.29	A
ATOM	204	O	LEU	138	-18.498	-4.986	0.301	1.00	12.97	A
ATOM	205	N	GLN	139	-18.345	-6.768	-1.035	1.00	13.04	A
ATOM	206	H	GLN	139	-18.052	-7.078	-1.960	1.00	15.00	A
ATOM	207	CA	GLN	139	-18.757	-7.658	0.013	1.00	15.32	A
ATOM	208	CB	GLN	139	-19.847	-8.678	-0.481	1.00	13.99	A
ATOM	209	CG	GLN	139	-21.068	-7.960	-1.113	1.00	20.85	A
ATOM	210	CD	GLN	139	-21.872	-7.022	-0.193	1.00	22.04	A
ATOM	211	OE1	GLN	139	-22.343	-7.439	0.878	1.00	25.45	A
ATOM	212	NE2	GLN	139	-21.963	-5.739	-0.618	1.00	17.74	A
ATOM	213	HE21	GLN	139	-22.697	-5.181	-0.206	1.00	15.00	A
ATOM	214	HE22	GLN	139	-21.460	-5.326	-1.374	1.00	15.00	A
ATOM	215	C	GLN	139	-17.527	-8.383	0.541	1.00	14.26	A
ATOM	216	O	GLN	139	-16.554	-8.640	-0.144	1.00	14.40	A
ATOM	217	N	TRP	140	-17.647	-8.780	1.805	1.00	12.80	A
ATOM	218	H	TRP	140	-18.433	-8.447	2.297	1.00	15.00	A
ATOM	219	CA	TRP	140	-16.542	-9.500	2.463	1.00	14.03	A
ATOM	220	CB	TRP	140	-15.813	-8.623	3.483	1.00	14.18	A
ATOM	221	CG	TRP	140	-15.467	-7.291	2.823	1.00	8.44	A
ATOM	222	CD2	TRP	140	-14.379	-6.966	1.941	1.00	9.01	A
ATOM	223	CE2	TRP	140	-14.549	-5.625	1.482	1.00	8.40	A
ATOM	224	CE3	TRP	140	-13.215	-7.688	1.581	1.00	10.14	A
ATOM	225	CD1	TRP	140	-16.225	-6.137	2.863	1.00	11.29	A
ATOM	226	NE1	TRP	140	-15.710	-5.150	2.077	1.00	14.27	A
ATOM	227	HE1	TRP	140	-16.121	-4.268	2.010	1.00	15.00	A
ATOM	228	CZ2	TRP	140	-13.640	-5.009	0.590	1.00	8.16	A
ATOM	229	CZ3	TRP	140	-12.292	-7.069	0.713	1.00	13.90	A
ATOM	230	CH2	TRP	140	-12.497	-5.749	0.215	1.00	12.11	A
ATOM	231	C	TRP	140	-17.016	-10.701	3.170	1.00	14.34	A
ATOM	232	O	TRP	140	-18.193	-10.862	3.392	1.00	16.00	A
ATOM	233	N	ALA	141	-16.082	-11.528	3.558	1.00	14.80	A
ATOM	234	H	ALA	141	-15.133	-11.377	3.294	1.00	15.00	A
ATOM	235	CA	ALA	141	-16.489	-12.617	4.394	1.00	15.27	A
ATOM	236	CB	ALA	141	-16.504	-13.920	3.583	1.00	16.97	A
ATOM	237	C	ALA	141	-15.585	-12.761	5.607	1.00	15.90	A
ATOM	238	O	ALA	141	-14.453	-12.338	5.550	1.00	14.25	A
ATOM	239	N	GLU	142	-16.068	-13.366	6.688	1.00	19.74	A

FIGURE 17E

ATOM	240	H	GLU	142	-17.055	-13.574	6.688	1.00	15.00	A
ATOM	241	CA	GLU	142	-15.149	-13.759	7.731	1.00	25.93	A
ATOM	242	CB	GLU	142	-15.794	-13.910	9.117	1.00	21.75	A
ATOM	243	CG	GLU	142	-15.716	-12.456	9.647	1.00	24.05	A
ATOM	244	CD	GLU	142	-16.749	-12.087	10.711	1.00	26.61	A
ATOM	245	OE1	GLU	142	-17.908	-11.888	10.361	1.00	34.72	A
ATOM	246	OE2	GLU	142	-16.404	-11.984	11.886	1.00	30.07	A
ATOM	247	C	GLU	142	-14.200	-14.797	7.193	1.00	33.25	A
ATOM	248	O	GLU	142	-13.156	-14.349	6.737	1.00	41.84	A
ATOM	249	N	LYS	143	-14.577	-16.080	7.084	1.00	34.17	A
ATOM	250	H	LYS	143	-15.432	-16.384	7.492	1.00	15.00	A
ATOM	251	CA	LYS	143	-13.882	-16.854	5.980	1.00	35.31	A
ATOM	252	CB	LYS	143	-14.673	-16.603	4.681	1.00	37.64	A
ATOM	253	CG	LYS	143	-14.300	-17.505	3.531	1.00	47.37	A
ATOM	254	CD	LYS	143	-15.022	-17.284	2.202	1.00	50.37	A
ATOM	255	CE	LYS	143	-14.686	-16.047	1.357	1.00	49.23	A
ATOM	256	NZ	LYS	143	-15.632	-16.097	0.221	1.00	51.67	A
ATOM	257	HZ1	LYS	143	-15.333	-15.445	-0.534	1.00	15.00	A
ATOM	258	HZ2	LYS	143	-15.680	-17.061	-0.177	1.00	15.00	A
ATOM	259	HZ3	LYS	143	-16.564	-15.833	0.585	1.00	15.00	A
ATOM	260	C	LYS	143	-12.330	-16.979	5.637	1.00	32.80	A
ATOM	261	O	LYS	143	-11.831	-18.041	5.276	1.00	35.64	A
ATOM	262	N	GLY	144	-11.522	-15.923	5.637	1.00	28.26	A
ATOM	263	H	GLY	144	-11.718	-14.995	5.910	1.00	15.00	A
ATOM	264	CA	GLY	144	-10.243	-16.458	5.194	1.00	32.94	A
ATOM	265	C	GLY	144	-9.178	-16.862	6.180	1.00	29.93	A
ATOM	266	O	GLY	144	-9.345	-17.454	7.205	1.00	24.67	A
ATOM	267	N	TYR	145	-8.069	-16.270	5.815	1.00	26.37	A
ATOM	268	H	TYR	145	-8.160	-15.729	4.966	1.00	15.00	A
ATOM	269	CA	TYR	145	-7.027	-16.002	6.777	1.00	27.61	A
ATOM	270	CB	TYR	145	-5.708	-15.877	5.947	1.00	37.54	A
ATOM	271	CG	TYR	145	-5.962	-15.774	4.456	1.00	50.95	A
ATOM	272	CD1	TYR	145	-5.682	-14.633	3.706	1.00	53.22	A
ATOM	273	CE1	TYR	145	-6.313	-14.377	2.468	1.00	60.28	A
ATOM	274	CD2	TYR	145	-6.591	-16.847	3.791	1.00	53.11	A
ATOM	275	CE2	TYR	145	-7.207	-16.699	2.551	1.00	56.30	A
ATOM	276	CZ	TYR	145	-7.162	-15.430	1.873	1.00	61.12	A
ATOM	277	OH	TYR	145	-7.812	-15.119	0.665	1.00	62.63	A
ATOM	278	HH	TYR	145	-8.575	-15.686	0.401	1.00	15.00	A
ATOM	279	C	TYR	145	-7.532	-14.762	7.620	1.00	22.41	A
ATOM	280	O	TYR	145	-7.000	-13.677	7.650	1.00	22.68	A
ATOM	281	N	TYR	146	-8.731	-14.884	8.196	1.00	20.39	A
ATOM	282	H	TYR	146	-8.935	-15.824	8.509	1.00	15.00	A
ATOM	283	CA	TYR	146	-9.423	-13.700	8.725	1.00	20.40	A
ATOM	284	CB	TYR	146	-10.886	-13.673	8.306	1.00	22.53	A
ATOM	285	CG	TYR	146	-11.710	-14.460	9.286	1.00	23.02	A
ATOM	286	CD1	TYR	146	-11.635	-15.873	9.236	1.00	26.99	A
ATOM	287	CE1	TYR	146	-12.254	-16.623	10.239	1.00	25.44	A
ATOM	288	CD2	TYR	146	-12.477	-13.766	10.236	1.00	23.45	A
ATOM	289	CE2	TYR	146	-13.150	-14.520	11.205	1.00	26.81	A
ATOM	290	CZ	TYR	146	-13.007	-15.937	11.204	1.00	27.40	A
ATOM	291	OH	TYR	146	-13.647	-16.689	12.170	1.00	31.91	A
ATOM	292	HH	TYR	146	-12.911	-17.080	12.676	1.00	15.00	A
ATOM	293	C	TYR	146	-9.291	-13.419	10.219	1.00	18.79	A
ATOM	294	O	TYR	146	-8.904	-14.232	11.012	1.00	16.13	A
ATOM	295	N	THR	147	-9.596	-12.169	10.556	1.00	17.54	A
ATOM	296	H	THR	147	-9.973	-11.607	9.830	1.00	15.00	A
ATOM	297	CA	THR	147	-9.432	-11.764	11.948	1.00	14.06	A
ATOM	298	CB	THR	147	-8.162	-10.875	12.182	1.00	13.66	A
ATOM	299	CG1	THR	147	-6.912	-11.505	11.856	1.00	12.56	A

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FIGURE 17F

ATOM	300	HG1	THR	147	-6.934	-11.898	10.980	1.00	15.00	A
ATOM	301	CG2	THR	147	-8.025	-10.236	13.554	1.00	7.22	A
ATOM	302	C	THR	147	-10.619	-10.925	12.253	1.00	15.60	A
ATOM	303	O	THR	147	-11.044	-10.074	11.496	1.00	16.39	A
ATOM	304	N	MET	148	-11.144	-11.139	13.412	1.00	20.67	A
ATOM	305	H	MET	148	-10.838	-11.988	13.828	1.00	15.00	A
ATOM	306	CA	MET	148	-12.124	-10.311	14.110	1.00	19.71	A
ATOM	307	CB	MET	148	-13.546	-10.702	13.705	1.00	17.89	A
ATOM	308	CG	MET	148	-14.541	-9.580	14.019	1.00	13.53	A
ATOM	309	SD	MET	148	-14.492	-8.149	12.952	1.00	14.69	A
ATOM	310	CE	MET	148	-14.566	-8.928	11.333	1.00	10.10	A
ATOM	311	C	MET	148	-11.915	-10.282	15.639	1.00	21.49	A
ATOM	312	O	MET	148	-12.594	-10.905	16.436	1.00	22.98	A
ATOM	313	N	SER	149	-10.955	-9.412	16.055	1.00	20.58	A
ATOM	314	H	SER	149	-10.516	-8.786	15.406	1.00	15.00	A
ATOM	315	CA	SER	149	-10.388	-9.698	17.419	1.00	19.11	A
ATOM	316	CB	SER	149	-9.174	-8.860	17.792	1.00	12.17	A
ATOM	317	OG	SER	149	-9.540	-7.513	17.975	1.00	14.10	A
ATOM	318	HG	SER	149	-9.571	-7.487	18.934	1.00	15.00	A
ATOM	319	C	SER	149	-11.203	-9.844	18.727	1.00	22.19	A
ATOM	320	O	SER	149	-10.728	-10.267	19.772	1.00	22.95	A
ATOM	321	N	ASN	150	-12.456	-9.322	18.631	1.00	22.71	A
ATOM	322	H	ASN	150	-12.782	-9.247	17.688	1.00	15.00	A
ATOM	323	CA	ASN	150	-13.361	-9.236	19.764	1.00	20.32	A
ATOM	324	CB	ASN	150	-12.734	-8.446	20.955	1.00	21.56	A
ATOM	325	CG	ASN	150	-12.343	-6.962	20.706	1.00	20.71	A
ATOM	326	OD1	ASN	150	-13.059	-6.187	20.119	1.00	17.81	A
ATOM	327	ND2	ASN	150	-11.222	-6.485	21.271	1.00	23.86	A
ATOM	328	HD21	ASN	150	-11.035	-5.521	21.092	1.00	15.00	A
ATOM	329	HD22	ASN	150	-10.670	-7.109	21.821	1.00	15.00	A
ATOM	330	C	ASN	150	-14.644	-8.657	19.256	1.00	20.60	A
ATOM	331	O	ASN	150	-14.718	-8.130	18.148	1.00	20.56	A
ATOM	332	N	ASN	151	-15.637	-8.713	20.149	1.00	23.49	A
ATOM	333	H	ASN	151	-15.455	-9.124	21.038	1.00	15.00	A
ATOM	334	CA	ASN	151	-16.974	-8.080	19.823	1.00	24.71	A
ATOM	335	CB	ASN	151	-18.130	-8.645	20.712	1.00	28.30	A
ATOM	336	CG	ASN	151	-17.959	-8.271	22.173	1.00	33.23	A
ATOM	337	OD1	ASN	151	-17.075	-7.562	22.606	1.00	39.79	A
ATOM	338	ND2	ASN	151	-18.782	-8.838	23.011	1.00	38.32	A
ATOM	339	HD21	ASN	151	-18.553	-8.524	23.928	1.00	15.00	A
ATOM	340	HD22	ASN	151	-19.495	-9.465	22.733	1.00	15.00	A
ATOM	341	C	ASN	151	-17.172	-6.531	19.645	1.00	22.53	A
ATOM	342	O	ASN	151	-18.254	-6.048	19.374	1.00	21.32	A
ATOM	343	N	LEU	152	-16.066	-5.762	19.859	1.00	23.00	A
ATOM	344	H	LEU	152	-15.247	-6.289	20.070	1.00	15.00	A
ATOM	345	CA	LEU	152	-15.924	-4.335	19.525	1.00	18.87	A
ATOM	346	CB	LEU	152	-14.830	-3.700	20.325	1.00	21.77	A
ATOM	347	CG	LEU	152	-14.981	-3.999	21.806	1.00	24.80	A
ATOM	348	CD1	LEU	152	-16.390	-3.645	22.316	1.00	22.82	A
ATOM	349	CD2	LEU	152	-13.947	-3.256	22.556	1.00	23.56	A
ATOM	350	C	LEU	152	-15.565	-3.993	18.094	1.00	17.34	A
ATOM	351	O	LEU	152	-15.590	-2.840	17.708	1.00	13.39	A
ATOM	352	N	VAL	153	-15.267	-5.054	17.309	1.00	18.65	A
ATOM	353	H	VAL	153	-15.156	-5.962	17.716	1.00	15.00	A
ATOM	354	CA	VAL	153	-15.439	-4.910	15.849	1.00	16.81	A
ATOM	355	CB	VAL	153	-14.138	-5.021	14.980	1.00	15.33	A
ATOM	356	CG1	VAL	153	-12.908	-5.718	15.562	1.00	21.22	A
ATOM	357	CG2	VAL	153	-13.775	-3.757	14.287	1.00	16.95	A
ATOM	358	C	VAL	153	-16.405	-5.964	15.301	1.00	13.48	A
ATOM	359	O	VAL	153	-16.363	-7.116	13.647	1.00	13.06	A

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FIGURE 17G

ATOM	360	N	THR	154	-17.207	-5.546	14.358	1.00	12.06	A
ATOM	361	H	THR	154	-17.313	-4.568	14.215	1.00	15.00	A
ATOM	362	CA	THR	154	-17.903	-6.600	13.615	1.00	16.26	A
ATOM	363	CB	THR	154	-19.366	-6.747	14.157	1.00	19.51	A
ATOM	364	CG1	THR	154	-19.995	-5.459	14.205	1.00	19.31	A
ATOM	365	HG1	THR	154	-20.577	-5.508	14.949	1.00	15.00	A
ATOM	366	CG2	THR	154	-19.502	-7.288	15.571	1.00	21.62	A
ATOM	367	C	THR	154	-17.997	-6.252	12.107	1.00	18.12	A
ATOM	368	O	THR	154	-17.952	-5.110	11.605	1.00	16.55	A
ATOM	369	N	LEU	155	-18.101	-7.324	11.357	1.00	16.77	A
ATOM	370	H	LEU	155	-18.056	-8.202	11.791	1.00	15.00	A
ATOM	371	CA	LEU	155	-18.514	-7.198	9.967	1.00	17.10	A
ATOM	372	CB	LEU	155	-17.829	-8.353	9.204	1.00	20.04	A
ATOM	373	CG	LEU	155	-17.524	-8.428	7.692	1.00	20.81	A
ATOM	374	CD1	LEU	155	-17.822	-7.159	6.908	1.00	17.03	A
ATOM	375	CD2	LEU	155	-17.912	-9.810	7.139	1.00	12.42	A
ATOM	376	C	LEU	155	-20.055	-7.187	9.904	1.00	20.71	A
ATOM	377	O	LEU	155	-20.712	-8.163	10.217	1.00	18.01	A
ATOM	378	N	GLU	156	-20.593	-5.995	9.561	1.00	19.51	A
ATOM	379	H	GLU	156	-19.959	-5.230	9.440	1.00	15.00	A
ATOM	380	CA	GLU	156	-22.036	-5.888	9.413	1.00	21.95	A
ATOM	381	CB	GLU	156	-22.641	-4.631	10.033	1.00	18.95	A
ATOM	382	CG	GLU	156	-22.098	-4.412	11.436	1.00	27.68	A
ATOM	383	CD	GLU	156	-22.721	-5.194	12.587	1.00	31.62	A
ATOM	384	OE1	GLU	156	-23.347	-6.248	12.367	1.00	33.40	A
ATOM	385	OE2	GLU	156	-22.532	-4.721	13.724	1.00	35.00	A
ATOM	386	C	GLU	156	-22.457	-5.966	7.964	1.00	25.36	A
ATOM	387	O	GLU	156	-21.958	-5.298	7.077	1.00	22.70	A
ATOM	388	N	ASN	157	-23.437	-6.808	7.696	1.00	30.92	A
ATOM	389	H	ASN	157	-23.594	-7.590	8.300	1.00	15.00	A
ATOM	390	CA	ASN	157	-23.804	-6.620	6.300	1.00	33.31	A
ATOM	391	CB	ASN	157	-23.856	-7.970	5.614	1.00	31.69	A
ATOM	392	CG	ASN	157	-23.669	-7.693	4.168	1.00	27.70	A
ATOM	393	CD1	ASN	157	-23.397	-6.593	3.810	1.00	25.89	A
ATOM	394	ND2	ASN	157	-23.893	-8.640	3.275	1.00	41.69	A
ATOM	395	HD21	ASN	157	-24.069	-9.603	3.467	1.00	15.00	A
ATOM	396	HD22	ASN	157	-23.745	-8.295	2.340	1.00	15.00	A
ATOM	397	C	ASN	157	-24.988	-5.658	6.118	1.00	35.08	A
ATOM	398	O	ASN	157	-26.107	-5.949	6.499	1.00	37.06	A
ATOM	399	N	GLY	158	-24.746	-4.443	5.560	1.00	40.03	A
ATOM	400	H	GLY	158	-25.601	-3.952	5.429	1.00	15.00	A
ATOM	401	CA	GLY	158	-23.422	-3.887	5.121	1.00	38.11	A
ATOM	402	C	GLY	158	-23.062	-3.720	3.617	1.00	37.48	A
ATOM	403	O	GLY	158	-23.890	-3.108	2.950	1.00	41.11	A
ATOM	404	N	LYS	159	-21.867	-4.220	3.135	1.00	32.75	A
ATOM	405	H	LYS	159	-21.904	-4.134	2.130	1.00	15.00	A
ATOM	406	CA	LYS	159	-20.828	-4.928	3.962	1.00	27.83	A
ATOM	407	CB	LYS	159	-20.317	-6.122	3.217	1.00	28.17	A
ATOM	408	CG	LYS	159	-19.734	-7.168	4.069	1.00	20.48	A
ATOM	409	CD	LYS	159	-20.533	-8.426	4.192	1.00	29.61	A
ATOM	410	CE	LYS	159	-20.577	-9.191	2.869	1.00	40.41	A
ATOM	411	NZ	LYS	159	-20.796	-10.663	2.986	1.00	40.88	A
ATOM	412	HZ1	LYS	159	-20.739	-11.087	2.035	1.00	15.00	A
ATOM	413	HZ2	LYS	159	-20.070	-11.087	3.600	1.00	15.00	A
ATOM	414	HZ3	LYS	159	-21.738	-10.848	3.389	1.00	15.00	A
ATOM	415	C	LYS	159	-19.688	-4.065	4.463	1.00	26.08	A
ATOM	416	O	LYS	159	-19.023	-3.369	3.696	1.00	28.01	A
ATOM	417	N	GLN	160	-19.683	-3.990	5.807	1.00	18.90	A
ATOM	418	H	GLN	160	-20.211	-4.674	6.319	1.00	15.00	A
ATOM	419	CA	GLN	160	-18.922	-2.929	6.464	1.00	13.89	A

**FIGURE 17H**

ATOM	420	CB	GLN	160	-19.778	-1.694	6.611	1.00	16.79	A
ATOM	421	CG	GLN	160	-20.881	-1.896	7.633	1.00	18.34	A
ATOM	422	CD	GLN	160	-22.133	-1.166	7.193	1.00	23.97	A
ATOM	423	OE1	GLN	160	-23.088	-0.970	7.893	1.00	31.18	A
ATOM	424	NE2	GLN	160	-22.257	-0.771	5.948	1.00	28.16	A
ATOM	425	HE21	GLN	160	-23.194	-0.420	5.928	1.00	15.00	A
ATOM	426	HE22	GLN	160	-21.624	-0.780	5.186	1.00	15.00	A
ATOM	427	C	GLN	160	-18.313	-3.309	7.777	1.00	12.87	A
ATOM	428	O	GLN	160	-18.838	-4.151	8.498	1.00	14.78	A
ATOM	429	N	LEU	161	-17.187	-2.637	8.085	1.00	11.22	A
ATOM	430	H	LEU	161	-16.767	-2.124	7.340	1.00	15.00	A
ATOM	431	CA	LEU	161	-16.583	-2.870	9.405	1.00	9.71	A
ATOM	432	CB	LEU	161	-15.052	-2.939	9.390	1.00	4.67	A
ATOM	433	CG	LEU	161	-14.438	-4.060	8.559	1.00	7.30	A
ATOM	434	CD1	LEU	161	-14.511	-5.447	9.207	1.00	10.80	A
ATOM	435	CD2	LEU	161	-12.964	-3.794	8.389	1.00	5.48	A
ATOM	436	C	LEU	161	-17.082	-1.836	10.412	1.00	10.17	A
ATOM	437	O	LEU	161	-16.826	-0.657	10.341	1.00	13.36	A
ATOM	438	N	THR	162	-17.848	-2.338	11.375	1.00	16.94	A
ATOM	439	H	THR	162	-18.153	-3.279	11.251	1.00	15.00	A
ATOM	440	CA	THR	162	-18.317	-1.480	12.493	1.00	16.14	A
ATOM	441	CB	THR	162	-19.807	-1.769	12.640	1.00	13.33	A
ATOM	442	OG1	THR	162	-20.339	-1.707	11.308	1.00	16.73	A
ATOM	443	HG1	THR	162	-21.211	-1.254	11.343	1.00	15.00	A
ATOM	444	CG2	THR	162	-20.553	-0.832	13.562	1.00	15.01	A
ATOM	445	C	THR	162	-17.531	-1.547	13.842	1.00	13.28	A
ATOM	446	O	THR	162	-17.358	-2.587	14.449	1.00	20.21	A
ATOM	447	N	VAL	163	-16.994	-0.437	14.282	1.00	14.22	A
ATOM	448	H	VAL	163	-16.859	0.243	13.567	1.00	15.00	A
ATOM	449	CA	VAL	163	-16.326	-0.358	15.586	1.00	15.72	A
ATOM	450	CB	VAL	163	-15.038	0.426	15.428	1.00	11.82	A
ATOM	451	CG1	VAL	163	-15.191	1.944	15.368	1.00	9.87	A
ATOM	452	CG2	VAL	163	-14.229	-0.124	14.245	1.00	18.88	A
ATOM	453	C	VAL	163	-17.193	0.283	16.706	1.00	17.93	A
ATOM	454	O	VAL	163	-18.001	1.180	16.453	1.00	20.25	A
ATOM	455	N	LYS	164	-17.037	-0.232	17.925	1.00	15.44	A
ATOM	456	H	LYS	164	-16.254	-0.858	18.020	1.00	15.00	A
ATOM	457	CA	LYS	164	-17.856	0.138	19.109	1.00	17.33	A
ATOM	458	CB	LYS	164	-18.351	-1.150	19.807	1.00	19.58	A
ATOM	459	CG	LYS	164	-19.214	-1.885	18.759	1.00	23.56	A
ATOM	460	CD	LYS	164	-19.417	-3.410	18.851	1.00	28.85	A
ATOM	461	CE	LYS	164	-20.039	-4.047	17.554	1.00	33.81	A
ATOM	462	NZ	LYS	164	-19.428	-3.681	16.227	1.00	18.98	A

FIGURE 17I

ATOM	480	NH2	ARG	165	-12.485	3.946	23.425	1.00	31.65	A
ATOM	481	HH21	ARG	165	-12.133	4.860	23.623	1.00	15.00	A
ATOM	482	HH22	ARG	165	-12.322	3.527	22.530	1.00	15.00	A
ATOM	483	C	ARG	165	-14.608	3.554	19.510	1.00	17.70	A
ATOM	484	O	ARG	165	-14.018	3.450	18.441	1.00	18.26	A
ATOM	485	N	GLN	166	-14.763	4.687	20.151	1.00	17.43	A
ATOM	486	H	GLN	166	-15.263	4.614	21.007	1.00	15.00	A
ATOM	487	CA	GLN	166	-14.138	5.911	19.698	1.00	19.00	A
ATOM	488	CB	GLN	166	-14.613	7.021	20.610	1.00	23.79	A
ATOM	489	CG	GLN	166	-14.067	8.409	20.386	1.00	34.06	A
ATOM	490	CD	GLN	166	-15.178	9.399	20.659	1.00	45.91	A
ATOM	491	OE1	GLN	166	-15.102	10.492	20.135	1.00	53.64	A
ATOM	492	NE2	GLN	166	-16.202	9.046	21.418	1.00	44.10	A
ATOM	493	HE21	GLN	166	-16.906	9.765	21.443	1.00	15.00	A
ATOM	494	HE22	GLN	166	-16.577	8.287	21.935	1.00	15.00	A
ATOM	495	C	GLN	166	-12.649	5.881	19.644	1.00	17.48	A
ATOM	496	O	GLN	166	-12.029	5.378	20.561	1.00	18.13	A
ATOM	497	N	GLY	167	-12.160	6.478	18.565	1.00	14.83	A
ATOM	498	H	GLY	167	-12.750	6.836	17.850	1.00	15.00	A
ATOM	499	CA	GLY	167	-10.728	6.711	18.557	1.00	16.28	A
ATOM	500	C	GLY	167	-10.044	6.685	17.204	1.00	16.48	A
ATOM	501	O	GLY	167	-10.674	6.601	16.162	1.00	19.19	A
ATOM	502	N	LEU	168	-8.720	6.735	17.209	1.00	17.06	A
ATOM	503	H	LEU	168	-8.311	6.890	18.120	1.00	15.00	A
ATOM	504	CA	LEU	168	-7.925	6.625	15.992	1.00	16.60	A
ATOM	505	CB	LEU	168	-6.600	7.343	16.289	1.00	21.87	A
ATOM	506	CG	LEU	168	-6.247	8.745	15.716	1.00	22.69	A
ATOM	507	CD1	LEU	168	-5.119	9.410	16.539	1.00	21.20	A
ATOM	508	CD2	LEU	168	-7.436	9.617	15.361	1.00	18.38	A
ATOM	509	C	LEU	168	-7.686	5.136	15.604	1.00	14.84	A
ATOM	510	O	LEU	168	-7.282	4.278	16.392	1.00	15.89	A
ATOM	511	N	TYR	169	-7.943	4.873	14.300	1.00	10.57	A
ATOM	512	H	TYR	169	-8.313	5.659	13.807	1.00	15.00	A
ATOM	513	CA	TYR	169	-7.683	3.572	13.656	1.00	5.27	A
ATOM	514	CB	TYR	169	-8.989	3.014	13.230	1.00	5.83	A
ATOM	515	CG	TYR	169	-9.857	2.620	14.423	1.00	6.94	A
ATOM	516	CD1	TYR	169	-10.524	3.598	15.168	1.00	7.40	A
ATOM	517	CE1	TYR	169	-11.390	3.193	16.218	1.00	7.77	A
ATOM	518	CD2	TYR	169	-10.016	1.255	14.744	1.00	8.89	A
ATOM	519	CE2	TYR	169	-10.850	0.841	15.804	1.00	9.40	A
ATOM	520	CZ	TYR	169	-11.563	1.827	16.534	1.00	10.39	A
ATOM	521	OH	TYR	169	-12.443	1.410	17.534	1.00	7.99	A
ATOM	522	HH	TYR	169	-13.009	2.117	17.800	1.00	15.00	A
ATOM	523	C	TYR	169	-6.810	3.642	12.390	1.00	6.72	A
ATOM	524	O	TYR	169	-6.917	4.498	11.557	1.00	9.12	A
ATOM	525	N	TYR	170	-5.899	2.722	12.228	1.00	9.53	A
ATOM	526	H	TYR	170	-5.806	2.081	12.986	1.00	15.00	A
ATOM	527	CA	TYR	170	-5.313	2.511	10.899	1.00	10.01	A
ATOM	528	CB	TYR	170	-3.967	1.797	11.044	1.00	7.46	A
ATOM	529	CG	TYR	170	-3.259	1.636	9.679	1.00	13.45	A
ATOM	530	CD1	TYR	170	-2.680	2.766	9.052	1.00	12.66	A
ATOM	531	CE1	TYR	170	-2.213	2.658	7.738	1.00	10.18	A
ATOM	532	CD2	TYR	170	-3.304	0.385	9.057	1.00	10.90	A
ATOM	533	CE2	TYR	170	-2.891	0.303	7.730	1.00	8.68	A
ATOM	534	CZ	TYR	170	-2.331	1.419	7.124	1.00	9.97	A
ATOM	535	OH	TYR	170	-1.774	1.286	5.859	1.00	17.50	A
ATOM	536	HH	TYR	170	-1.886	0.404	5.514	1.00	15.00	A
ATOM	537	C	TYR	170	-6.279	1.610	10.073	1.00	10.40	A
ATOM	538	O	TYR	170	-6.679	0.500	10.421	1.00	12.52	A
ATOM	539	N	ILE	171	-6.704	2.174	8.968	1.00	12.16	A

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FIGURE 17J

ATOM	540	H	ILE	171	-6.475	3.235	8.808	1.00	15.00	A
ATOM	541	CA	ILE	171	-7.608	1.430	8.138	1.00	9.37	A
ATOM	542	CB	ILE	171	-9.070	1.990	8.317	1.00	11.21	A
ATOM	543	CG2	ILE	171	-9.326	3.501	8.677	1.00	17.27	A
ATOM	544	CG1	ILE	171	-10.046	1.564	7.214	1.00	13.33	A
ATOM	545	CD1	ILE	171	-10.647	0.250	7.619	1.00	17.53	A
ATOM	546	C	ILE	171	-7.074	1.234	6.694	1.00	8.34	A
ATOM	547	O	ILE	171	-6.453	2.088	6.082	1.00	6.96	A
ATOM	548	N	TYR	172	-7.286	0.005	6.216	1.00	11.07	A
ATOM	549	H	TYR	172	-7.809	-0.624	6.786	1.00	15.00	A
ATOM	550	CA	TYR	172	-6.708	-0.378	4.922	1.00	15.60	A
ATOM	551	CB	TYR	172	-5.332	-1.082	5.037	1.00	14.32	A
ATOM	552	CG	TYR	172	-5.389	-2.397	5.796	1.00	9.21	A
ATOM	553	CD1	TYR	172	-5.342	-2.402	7.216	1.00	12.52	A
ATOM	554	CE1	TYR	172	-5.607	-3.620	7.901	1.00	10.88	A
ATOM	555	CD2	TYR	172	-5.565	-3.586	5.050	1.00	12.66	A
ATOM	556	CE2	TYR	172	-5.829	-4.800	5.740	1.00	15.83	A
ATOM	557	CZ	TYR	172	-5.822	-4.808	7.164	1.00	11.94	A
ATOM	558	OH	TYR	172	-5.995	-6.002	7.820	1.00	12.17	A
ATOM	559	HH	TYR	172	-6.433	-5.843	8.657	1.00	15.00	A
ATOM	560	C	TYR	172	-7.605	-1.276	4.106	1.00	16.85	A
ATOM	561	O	TYR	172	-8.346	-2.057	4.692	1.00	14.06	A
ATOM	562	N	ALA	173	-7.448	-1.141	2.776	1.00	16.29	A
ATOM	563	H	ALA	173	-6.751	-0.490	2.503	1.00	15.00	A
ATOM	564	CA	ALA	173	-7.940	-2.152	1.836	1.00	15.11	A
ATOM	565	CB	ALA	173	-9.300	-1.725	1.292	1.00	12.08	A
ATOM	566	C	ALA	173	-7.007	-2.537	0.653	1.00	15.86	A
ATOM	567	O	ALA	173	-6.147	-1.806	0.191	1.00	14.20	A
ATOM	568	N	GLN	174	-7.244	-3.714	0.109	1.00	16.56	A
ATOM	569	H	GLN	174	-7.774	-4.389	0.620	1.00	15.00	A
ATOM	570	CA	GLN	174	-6.470	-4.119	-1.070	1.00	19.25	A
ATOM	571	CB	GLN	174	-5.582	-5.292	-0.832	1.00	21.99	A
ATOM	572	CG	GLN	174	-4.205	-4.727	-1.030	1.00	30.99	A
ATOM	573	CD	GLN	174	-3.174	-5.845	-0.979	1.00	34.25	A
ATOM	574	OE1	GLN	174	-2.308	-5.899	-0.105	1.00	32.91	A
ATOM	575	NE2	GLN	174	-3.268	-6.699	-2.014	1.00	31.50	A
ATOM	576	HE21	GLN	174	-2.668	-7.487	-1.970	1.00	15.00	A
ATOM	577	HE22	GLN	174	-3.973	-6.621	-2.714	1.00	15.00	A
ATOM	578	C	GLN	174	-7.413	-4.644	-2.114	1.00	19.20	A
ATOM	579	O	GLN	174	-8.285	-5.434	-1.880	1.00	20.03	A
ATOM	580	N	VAL	175	-7.291	-4.107	-3.301	1.00	19.28	A
ATOM	581	H	VAL	175	-6.594	-3.401	-3.400	1.00	15.00	A
ATOM	582	CA	VAL	175	-8.247	-4.500	-4.323	1.00	22.43	A
ATOM	583	CB	VAL	175	-9.319	-3.409	-4.644	1.00	21.41	A
ATOM	584	CG1	VAL	175	-10.146	-2.830	-3.495	1.00	20.17	A
ATOM	585	CG2	VAL	175	-10.268	-4.061	-5.639	1.00	22.88	A
ATOM	586	C	VAL	175	-7.508	-4.859	-5.615	1.00	24.56	A
ATOM	587	O	VAL	175	-6.928	-3.997	-6.301	1.00	23.28	A
ATOM	588	N	THR	176	-7.563	-6.180	-5.879	1.00	25.40	A
ATOM	589	H	THR	176	-7.994	-6.850	-5.250	1.00	15.00	A
ATOM	590	CA	THR	176	-7.086	-6.501	-7.222	1.00	24.46	A
ATOM	591	CB	THR	176	-5.844	-7.454	-7.256	1.00	24.78	A
ATOM	592	OG1	THR	176	-5.948	-8.650	-8.028	1.00	20.31	A
ATOM	593	HG1	THR	176	-5.250	-9.253	-7.796	1.00	15.00	A
ATOM	594	CG2	THR	176	-5.329	-7.711	-5.867	1.00	17.07	A
ATOM	595	C	THR	176	-8.178	-6.700	-8.272	1.00	25.44	A
ATOM	596	O	THR	176	-9.326	-7.043	-7.995	1.00	26.86	A
ATOM	597	N	PHE	177	-7.855	-6.341	-9.506	1.00	22.44	A
ATOM	598	H	PHE	177	-6.920	-6.083	-9.732	1.00	15.00	A
ATOM	599	CA	PHE	177	-8.939	-6.511	-10.479	1.00	22.70	A

FIGURE 17K

ATOM	600	CB	PHE	177	-9.746	-5.194	-10.599	1.00	20.90	A
ATOM	601	CG	PHE	177	-8.813	-4.034	-10.927	1.00	22.51	A
ATOM	602	CD1	PHE	177	-8.771	-3.548	-12.252	1.00	22.11	A
ATOM	603	CD2	PHE	177	-8.011	-3.422	-9.920	1.00	21.87	A
ATOM	604	CE1	PHE	177	-8.041	-2.387	-12.550	1.00	20.53	A
ATOM	605	CE2	PHE	177	-7.289	-2.247	-10.204	1.00	20.44	A
ATOM	606	CZ	PHE	177	-7.376	-1.713	-11.500	1.00	22.79	A
ATOM	607	C	PHE	177	-8.381	-6.949	-11.800	1.00	22.14	A
ATOM	608	O	PHE	177	-7.219	-6.695	-12.072	1.00	21.60	A
ATOM	609	N	CYS	178	-9.210	-7.555	-12.625	1.00	24.52	A
ATOM	610	H	CYS	178	-10.146	-7.797	-12.370	1.00	15.00	A
ATOM	611	CA	CYS	178	-8.599	-7.849	-13.942	1.00	29.77	A
ATOM	612	CB	CYS	178	-8.501	-9.365	-14.214	1.00	32.06	A
ATOM	613	SG	CYS	178	-7.685	-9.731	-15.792	1.00	35.17	A
ATOM	614	C	CYS	178	-9.323	-7.146	-15.088	1.00	28.41	A
ATOM	615	O	CYS	178	-10.534	-7.247	-15.185	1.00	27.54	A
ATOM	616	N	SER	179	-8.589	-6.393	-15.910	1.00	28.86	A
ATOM	617	H	SER	179	-7.608	-6.271	-15.754	1.00	15.00	A
ATOM	618	CA	SER	179	-9.374	-5.454	-16.704	1.00	29.01	A
ATOM	619	CB	SER	179	-9.379	-4.118	-16.020	1.00	30.82	A
ATOM	620	OG	SER	179	-10.615	-3.492	-16.319	1.00	39.79	A
ATOM	621	HG	SER	179	-10.725	-2.812	-15.667	1.00	15.00	A
ATOM	622	C	SER	179	-9.063	-5.196	-18.165	1.00	31.16	A
ATOM	623	O	SER	179	-7.931	-4.953	-18.537	1.00	28.58	A
ATOM	624	N	ASN	180	-10.083	-5.255	-19.042	1.00	35.32	A
ATOM	625	H	ASN	180	-10.966	-5.700	-18.834	1.00	15.00	A
ATOM	626	CA	ASN	180	-9.782	-4.725	-20.366	1.00	34.74	A
ATOM	627	CB	ASN	180	-10.205	-5.554	-21.589	1.00	37.96	A
ATOM	628	CG	ASN	180	-9.650	-4.980	-22.896	1.00	37.12	A
ATOM	629	OD1	ASN	180	-10.058	-3.947	-23.356	1.00	40.66	A
ATOM	630	ND2	ASN	180	-8.619	-5.536	-23.456	1.00	35.85	A
ATOM	631	HD21	ASN	180	-8.343	-6.475	-23.306	1.00	15.00	A
ATOM	632	HD22	ASN	180	-8.153	-4.891	-24.065	1.00	15.00	A
ATOM	633	C	ASN	180	-10.197	-3.331	-20.588	1.00	36.96	A
ATOM	634	O	ASN	180	-11.314	-2.894	-20.433	1.00	37.89	A
ATOM	635	N	ARG	181	-9.147	-2.699	-21.068	1.00	41.95	A
ATOM	636	H	ARG	181	-6.363	-3.318	-21.141	1.00	15.00	A
ATOM	637	CA	ARG	181	-8.997	-1.313	-21.489	1.00	44.24	A
ATOM	638	CB	ARG	181	-7.563	-1.279	-22.026	1.00	43.43	A
ATOM	639	CG	ARG	181	-6.348	-1.638	-21.101	1.00	45.11	A
ATOM	640	CD	ARG	181	-6.235	-2.853	-20.134	1.00	40.68	A
ATOM	641	NE	ARG	181	-5.064	-2.772	-19.271	1.00	46.11	A
ATOM	642	HE	ARG	181	-4.991	-2.058	-18.578	1.00	15.00	A
ATOM	643	CZ	ARG	181	-4.024	-3.611	-19.432	1.00	49.77	A
ATOM	644	NH1	ARG	181	-2.886	-3.414	-18.790	1.00	54.33	A
ATOM	645	HH11	ARG	181	-2.113	-4.032	-18.918	1.00	15.00	A
ATOM	646	HH12	ARG	181	-2.807	-2.642	-18.161	1.00	15.00	A
ATOM	647	NH2	ARG	181	-4.085	-4.641	-20.247	1.00	54.26	A
ATOM	648	HH21	ARG	181	-3.286	-5.230	-20.354	1.00	15.00	A
ATOM	649	HH22	ARG	181	-4.918	-4.833	-20.761	1.00	15.00	A
ATOM	650	C	ARG	181	-10.049	-0.866	-22.499	1.00	47.10	A
ATOM	651	O	ARG	181	-10.979	-0.112	-22.227	1.00	49.20	A
ATOM	652	N	GLU	182	-9.895	-1.447	-23.690	1.00	49.64	A
ATOM	653	H	GLU	182	-9.201	-2.166	-23.775	1.00	15.00	A
ATOM	654	CA	GLU	182	-10.976	-1.385	-24.676	1.00	52.41	A
ATOM	655	CB	GLU	182	-10.437	-2.020	-25.970	1.00	56.93	A
ATOM	656	CG	GLU	182	-10.932	-1.418	-27.295	1.00	66.05	A
ATOM	657	CD	GLU	182	-10.758	0.116	-27.327	1.00	70.54	A
ATOM	658	OE1	GLU	182	-9.613	0.586	-27.442	1.00	72.98	A
ATOM	659	OE2	GLU	182	-11.778	0.830	-27.244	1.00	72.46	A

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FIGURE 17L

ATOM	660	C	GLU	182	-12.388	-1.934	-24.304	1.00	53.00	A
ATOM	661	O	GLU	182	-13.379	-1.492	-24.862	1.00	54.27	A
ATOM	662	N	ALA	183	-12.505	-2.877	-23.335	1.00	52.34	A
ATOM	663	H	ALA	183	-11.676	-3.173	-22.865	1.00	15.00	A
ATOM	664	CA	ALA	183	-13.867	-3.258	-22.899	1.00	50.19	A
ATOM	665	CB	ALA	183	-13.855	-4.721	-22.447	1.00	45.02	A
ATOM	666	C	ALA	183	-14.562	-2.321	-21.867	1.00	50.66	A
ATOM	667	O	ALA	183	-15.712	-1.945	-21.990	1.00	47.77	A
ATOM	668	N	SER	184	-13.773	-1.888	-20.878	1.00	52.95	A
ATOM	669	H	SER	184	-12.826	-2.172	-20.991	1.00	15.00	A
ATOM	670	CA	SER	184	-14.228	-1.043	-19.729	1.00	56.78	A
ATOM	671	CB	SER	184	-13.384	-1.397	-18.481	1.00	53.58	A
ATOM	672	OG	SER	184	-13.975	-2.448	-17.721	1.00	47.46	A
ATOM	673	HG	SER	184	-13.291	-3.019	-17.388	1.00	15.00	A
ATOM	674	C	SER	184	-14.183	0.517	-19.880	1.00	59.95	A
ATOM	675	O	SER	184	-13.913	1.297	-18.964	1.00	65.25	A
ATOM	676	N	SER	185	-14.324	0.995	-21.131	1.00	60.08	A
ATOM	677	H	SER	185	-14.623	0.345	-21.831	1.00	15.00	A
ATOM	678	CA	SER	185	-13.825	2.375	-21.391	1.00	60.12	A
ATOM	679	CB	SER	185	-13.522	2.640	-22.869	1.00	60.49	A
ATOM	680	OG	SER	185	-12.243	2.098	-23.242	1.00	59.80	A
ATOM	681	HG	SER	185	-12.158	1.234	-22.833	1.00	15.00	A
ATOM	682	C	SER	185	-14.580	3.589	-20.885	1.00	59.59	A
ATOM	683	O	SER	185	-15.437	4.159	-21.543	1.00	60.08	A
ATOM	684	N	GLN	186	-14.200	3.990	-19.670	1.00	57.71	A
ATOM	685	H	GLN	186	-13.601	3.376	-19.153	1.00	15.00	A
ATOM	686	CA	GLN	186	-15.121	4.936	-18.993	1.00	57.00	A
ATOM	687	CB	GLN	186	-16.094	4.062	-18.175	1.00	58.66	A
ATOM	688	CG	GLN	186	-15.355	3.354	-17.050	1.00	59.69	A
ATOM	689	CD	GLN	186	-16.369	2.789	-16.088	1.00	59.92	A
ATOM	690	OE1	GLN	186	-17.270	3.513	-15.687	1.00	59.81	A
ATOM	691	NE2	GLN	186	-16.249	1.503	-15.787	1.00	59.63	A
ATOM	692	HE21	GLN	186	-15.492	0.948	-16.113	1.00	15.00	A
ATOM	693	HE22	GLN	186	-16.950	1.119	-15.168	1.00	15.00	A
ATOM	694	C	GLN	186	-14.758	6.290	-18.221	1.00	54.36	A
ATOM	695	O	GLN	186	-15.596	7.198	-18.298	1.00	53.98	A
ATOM	696	N	ALA	187	-13.566	6.424	-17.511	1.00	50.35	A
ATOM	697	H	ALA	187	-13.476	7.274	-16.970	1.00	15.00	A
ATOM	698	CA	ALA	187	-12.388	5.599	-17.832	1.00	43.26	A
ATOM	699	CB	ALA	187	-11.546	6.284	-18.918	1.00	38.95	A
ATOM	700	C	ALA	187	-11.456	4.882	-16.849	1.00	40.48	A
ATOM	701	O	ALA	187	-10.887	3.875	-17.295	1.00	43.24	A
ATOM	702	N	PRO	188	-11.210	5.383	-15.594	1.00	38.66	A
ATOM	703	CD	PRO	188	-11.543	6.687	-15.000	1.00	38.15	A
ATOM	704	CA	PRO	188	-10.220	4.665	-14.751	1.00	35.94	A
ATOM	705	CB	PRO	188	-9.395	5.813	-14.150	1.00	33.99	A
ATOM	706	CG	PRO	188	-10.377	7.000	-14.036	1.00	32.69	A
ATOM	707	C	PRO	188	-10.840	3.783	-13.683	1.00	33.66	A
ATOM	708	O	PRO	188	-11.885	4.062	-13.140	1.00	33.41	A
ATOM	709	N	PHE	189	-10.147	2.695	-13.346	1.00	28.66	A
ATOM	710	H	PHE	189	-9.260	2.508	-13.748	1.00	15.00	A
ATOM	711	CA	PHE	189	-10.721	2.013	-12.171	1.00	26.71	A
ATOM	712	CB	PHE	189	-10.122	0.601	-12.034	1.00	26.21	A
ATOM	713	CG	PHE	189	-10.671	-0.189	-10.849	1.00	22.92	A
ATOM	714	CD1	PHE	189	-10.126	0.005	-9.566	1.00	17.72	A
ATOM	715	CD2	PHE	189	-11.687	-1.165	-11.064	1.00	21.88	A
ATOM	716	CE1	PHE	189	-10.590	-0.815	-8.522	1.00	19.12	A
ATOM	717	CE2	PHE	189	-12.124	-1.995	-10.011	1.00	21.13	A
ATOM	718	CZ	PHE	189	-11.571	-1.806	-8.736	1.00	18.44	A
ATOM	719	C	PHE	189	-10.445	2.815	-10.909	1.00	27.14	A

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**FIGURE 17M**

ATOM	720	O	PHE	189	-9.308	3.244	-10.706	1.00	28.72	A
ATOM	721	N	ILE	190	-11.468	2.964	-10.071	1.00	24.71	A
ATOM	722	H	ILE	190	-12.408	2.786	-10.389	1.00	15.00	A
ATOM	723	CA	ILE	190	-11.193	3.626	-8.789	1.00	24.03	A
ATOM	724	CB	ILE	190	-11.316	5.242	-8.743	1.00	26.86	A
ATOM	725	CG2	ILE	190	-11.892	5.979	-9.997	1.00	19.67	A
ATOM	726	CG1	ILE	190	-11.801	5.888	-7.424	1.00	22.54	A
ATOM	727	CD1	ILE	190	-12.819	7.012	-7.645	1.00	28.56	A
ATOM	728	C	ILE	190	-11.844	2.812	-7.656	1.00	21.97	A
ATOM	729	O	ILE	190	-12.891	2.197	-7.801	1.00	16.30	A
ATOM	730	N	ALA	191	-11.026	2.700	-6.590	1.00	17.21	A
ATOM	731	H	ALA	191	-10.124	3.124	-6.662	1.00	15.00	A
ATOM	732	CA	ALA	191	-11.501	2.195	-5.321	1.00	15.20	A
ATOM	733	CB	ALA	191	-10.730	0.928	-4.968	1.00	14.79	A
ATOM	734	C	ALA	191	-11.439	3.230	-4.206	1.00	17.11	A
ATOM	735	O	ALA	191	-10.467	3.961	-4.052	1.00	14.04	A
ATOM	736	N	SER	192	-12.511	3.245	-3.433	1.00	14.72	A
ATOM	737	H	SER	192	-13.277	2.694	-3.804	1.00	15.00	A
ATOM	738	CA	SER	192	-12.725	4.289	-2.423	1.00	16.69	A
ATOM	739	CB	SER	192	-13.931	5.144	-2.803	1.00	14.83	A
ATOM	740	OG	SER	192	-13.556	5.828	-3.994	1.00	21.23	A
ATOM	741	HG	SER	192	-14.367	5.966	-4.520	1.00	15.00	A
ATOM	742	C	SER	192	-12.980	3.682	-1.069	1.00	17.77	A
ATOM	743	O	SER	192	-13.753	2.738	-0.947	1.00	20.76	A
ATOM	744	N	LEU	193	-12.285	4.209	-0.038	1.00	15.56	A
ATOM	745	H	LEU	193	-11.681	4.959	-0.280	1.00	15.00	A
ATOM	746	CA	LEU	193	-12.510	3.761	1.366	1.00	13.27	A
ATOM	747	CB	LEU	193	-11.195	3.825	2.217	1.00	12.74	A
ATOM	748	CG	LEU	193	-11.051	3.141	3.604	1.00	14.37	A
ATOM	749	CD1	LEU	193	-12.272	2.354	4.116	1.00	14.67	A
ATOM	750	CD2	LEU	193	-10.274	3.986	4.622	1.00	12.64	A
ATOM	751	C	LEU	193	-13.497	4.748	1.911	1.00	11.22	A
ATOM	752	O	LEU	193	-13.188	5.912	1.903	1.00	12.22	A
ATOM	753	N	CYS	194	-14.652	4.326	2.310	1.00	13.66	A
ATOM	754	H	CYS	194	-14.828	3.347	2.276	1.00	15.00	A
ATOM	755	CA	CYS	194	-15.595	5.360	2.713	1.00	14.84	A
ATOM	756	CB	CYS	194	-16.915	5.409	1.918	1.00	17.58	A
ATOM	757	SG	CYS	194	-16.623	5.417	0.165	1.00	16.33	A
ATOM	758	C	CYS	194	-16.046	5.163	4.137	1.00	12.81	A
ATOM	759	O	CYS	194	-15.983	4.072	4.655	1.00	10.34	A
ATOM	760	N	LEU	195	-16.557	6.254	4.697	1.00	14.32	A
ATOM	761	H	LEU	195	-16.541	7.088	4.154	1.00	15.00	A
ATOM	762	CA	LEU	195	-17.039	6.291	6.076	1.00	14.89	A
ATOM	763	CB	LEU	195	-16.195	7.372	6.789	1.00	15.56	A
ATOM	764	CG	LEU	195	-16.571	7.680	8.242	1.00	15.56	A
ATOM	765	CD1	LEU	195	-15.932	8.967	8.762	1.00	13.72	A
ATOM	766	CD2	LEU	195	-16.463	6.448	9.154	1.00	17.25	A
ATOM	767	C	LEU	195	-18.546	6.544	6.209	1.00	13.54	A
ATOM	768	O	LEU	195	-19.038	7.521	5.705	1.00	14.56	A
ATOM	769	N	LYS	196	-19.238	5.667	6.905	1.00	16.36	A
ATOM	770	H	LYS	196	-18.719	4.875	7.197	1.00	15.00	A
ATOM	771	CA	LYS	196	-20.577	5.972	7.405	1.00	21.01	A
ATOM	772	CB	LYS	196	-21.475	4.726	7.146	1.00	22.66	A
ATOM	773	CG	LYS	196	-22.953	4.839	7.590	1.00	31.25	A
ATOM	774	CD	LYS	196	-23.364	4.915	9.104	1.00	40.25	A
ATOM	775	CE	LYS	196	-23.189	3.694	10.060	1.00	43.56	A
ATOM	776	NZ	LYS	196	-23.004	4.158	11.453	1.00	44.46	A
ATOM	777	HZ1	LYS	196	-22.182	4.799	11.467	1.00	15.00	A
ATOM	778	HZ2	LYS	196	-23.847	4.665	11.778	1.00	15.00	A
ATOM	779	HZ3	LYS	196	-22.807	3.334	12.066	1.00	15.00	A

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ATOM	780	C	LYS	196	-20.478	6.290	8.899	1.00	19.25	A
ATOM	781	C	LYS	196	-20.194	5.434	9.714	1.00	18.35	A
ATOM	782	N	SER	197	-20.664	7.534	9.272	1.00	20.63	A
ATOM	783	H	SER	197	-20.891	8.247	8.615	1.00	16.00	A
ATOM	784	CA	SER	197	-20.752	7.701	10.729	1.00	24.87	A
ATOM	785	CB	SER	197	-19.898	8.878	11.207	1.00	25.62	A
ATOM	786	OG	SER	197	-19.563	8.687	12.588	1.00	32.22	A
ATOM	787	HG	SER	197	-18.795	8.110	12.611	1.00	15.00	A
ATOM	788	C	SER	197	-22.216	7.810	11.218	1.00	26.33	A
ATOM	789	O	SER	197	-23.078	8.303	10.497	1.00	26.57	A
ATOM	790	N	PRO	198	-22.534	7.274	12.407	1.00	26.77	A
ATOM	791	CD	PRO	198	-21.649	6.526	13.301	1.00	32.92	A
ATOM	792	CA	PRO	198	-23.919	7.381	12.913	1.00	28.73	A
ATOM	793	CB	PRO	198	-23.784	6.789	14.318	1.00	32.89	A
ATOM	794	CG	PRO	198	-22.289	6.726	14.659	1.00	33.55	A
ATOM	795	C	PRO	198	-24.591	8.789	12.847	1.00	26.60	A
ATOM	796	O	PRO	198	-24.035	9.817	13.242	1.00	20.20	A
ATOM	797	N	GLY	199	-25.729	8.773	12.119	1.00	25.75	A
ATOM	798	H	GLY	199	-26.170	7.857	12.057	1.00	15.00	A
ATOM	799	CA	GLY	199	-26.486	10.003	11.790	1.00	26.91	A
ATOM	800	C	GLY	199	-25.821	10.971	10.816	1.00	28.98	A
ATOM	801	O	GLY	199	-26.084	12.151	10.797	1.00	31.05	A
ATOM	802	N	ARG	200	-24.898	10.464	10.001	1.00	30.15	A
ATOM	803	H	ARG	200	-24.629	9.519	10.165	1.00	15.00	A
ATOM	804	CA	ARG	200	-24.140	11.384	9.166	1.00	28.98	A
ATOM	805	CB	ARG	200	-22.749	11.590	9.783	1.00	33.16	A
ATOM	806	CG	ARG	200	-22.739	12.290	11.162	1.00	38.34	A
ATOM	807	CD	ARG	200	-21.327	12.530	11.705	1.00	42.14	A
ATOM	808	NE	ARG	200	-21.292	12.875	13.131	1.00	43.64	A
ATOM	809	HE	ARG	200	-21.327	13.831	13.424	1.00	15.00	A
ATOM	810	CZ	ARG	200	-21.138	11.896	14.051	1.00	46.40	A
ATOM	811	NH1	ARG	200	-21.219	10.603	13.733	1.00	46.31	A
ATOM	812	HH11	ARG	200	-21.104	9.910	14.445	1.00	15.00	A
ATOM	813	HH12	ARG	200	-21.394	10.320	12.789	1.00	15.00	A
ATOM	814	NH2	ARG	200	-20.901	12.226	15.311	1.00	46.65	A
ATOM	815	HH21	ARG	200	-20.847	13.193	15.566	1.00	15.00	A
ATOM	816	HH22	ARG	200	-20.785	11.510	16.002	1.00	15.00	A
ATOM	817	C	ARG	200	-24.084	10.967	7.710	1.00	27.77	A
ATOM	818	O	ARG	200	-24.264	9.791	7.449	1.00	28.21	A
ATOM	819	N	PHE	201	-23.853	11.926	6.792	1.00	30.83	A
ATOM	820	H	PHE	201	-23.513	12.821	7.126	1.00	15.00	A
ATOM	821	CA	PHE	201	-24.016	11.708	5.339	1.00	34.17	A
ATOM	822	CB	PHE	201	-23.851	12.996	4.572	1.00	31.58	A</

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ATOM	840	O	GLU	202	-20.137	11.567	3.300	1.00	30.76	A
ATOM	841	N	ARG	203	-18.728	9.897	3.856	1.00	26.88	A
ATOM	842	H	ARG	203	-18.690	8.998	4.285	1.00	15.00	A
ATOM	843	CA	ARG	203	-17.539	10.603	3.358	1.00	21.88	A
ATOM	844	CB	ARG	203	-16.819	11.410	4.457	1.00	27.07	A
ATOM	845	CG	ARG	203	-17.681	12.187	5.467	1.00	37.32	A
ATOM	846	CD	ARG	203	-16.894	13.213	6.339	1.00	48.09	A
ATOM	847	NE	ARG	203	-15.911	12.667	7.308	1.00	56.90	A
ATOM	848	HE	ARG	203	-16.240	12.433	8.223	1.00	15.00	A
ATOM	849	CZ	ARG	203	-14.572	12.475	7.001	1.00	66.77	A
ATOM	850	NH1	ARG	203	-13.702	12.002	7.911	1.00	68.44	A
ATOM	851	HH11	ARG	203	-12.745	11.829	7.666	1.00	15.00	A
ATOM	852	HH12	ARG	203	-14.016	11.822	8.845	1.00	15.00	A
ATOM	853	NH2	ARG	203	-14.084	12.716	5.766	1.00	67.68	A
ATOM	854	HH21	ARG	203	-14.670	13.108	5.060	1.00	15.00	A
ATOM	855	HH22	ARG	203	-13.143	12.499	5.544	1.00	15.00	A
ATOM	856	C	ARG	203	-16.517	9.633	2.678	1.00	17.71	A
ATOM	857	O	ARG	203	-16.375	8.418	2.931	1.00	7.69	A
ATOM	858	N	ILE	204	-15.789	10.253	1.791	1.00	14.42	A
ATOM	859	H	ILE	204	-15.915	11.228	1.561	1.00	15.00	A
ATOM	860	CA	ILE	204	-14.662	9.482	1.353	1.00	18.32	A
ATOM	861	CB	ILE	204	-14.520	9.392	-0.231	1.00	24.52	A
ATOM	862	CG2	ILE	204	-15.820	9.529	-1.069	1.00	21.85	A
ATOM	863	CG1	ILE	204	-13.439	10.195	-0.949	1.00	26.35	A
ATOM	864	CD1	ILE	204	-13.992	11.231	-1.961	1.00	36.33	A
ATOM	865	C	ILE	204	-13.387	9.819	2.153	1.00	16.58	A
ATOM	866	O	ILE	204	-13.070	10.956	2.457	1.00	18.63	A
ATOM	867	N	LEU	205	-12.718	8.725	2.571	1.00	13.32	A
ATOM	868	H	LEU	205	-13.142	7.853	2.321	1.00	15.00	A
ATOM	869	CA	LEU	205	-11.467	8.829	3.322	1.00	10.01	A
ATOM	870	CB	LEU	205	-11.440	7.688	4.382	1.00	6.66	A
ATOM	871	CG	LEU	205	-12.571	7.727	5.441	1.00	7.99	A
ATOM	872	CD1	LEU	205	-12.722	9.088	6.089	1.00	8.78	A
ATOM	873	CD2	LEU	205	-12.419	6.720	6.582	1.00	8.08	A
ATOM	874	C	LEU	205	-10.268	8.811	2.377	1.00	9.75	A
ATOM	875	O	LEU	205	-9.416	9.655	2.320	1.00	10.25	A
ATOM	876	N	LEU	206	-10.252	7.769	1.562	1.00	10.28	A
ATOM	877	H	LEU	206	-10.991	7.119	1.684	1.00	15.00	A
ATOM	878	CA	LEU	206	-9.166	7.555	0.610	1.00	10.02	A
ATOM	879	CB	LEU	206	-8.249	6.384	0.990	1.00	11.94	A
ATOM	880	CG	LEU	206	-7.001	6.527	1.859	1.00	14.40	A
ATOM	881	CD1	LEU	206	-7.094	5.595	3.074	1.00	14.49	A
ATOM	882	CD2	LEU	206	-6.531	7.958	2.151	1.00	8.78	A
ATOM	883	C	LEU	206	-9.756	7.071	-0.697	1.00	11.91	A
ATOM	884	O	LEU	206	-10.792	6.406	-0.778	1.00	10.67	A
ATOM	885	N	ARG	207	-9.005	7.428	-1.720	1.00	8.06	A
ATOM	886	H	ARG	207	-8.196	7.992	-1.553	1.00	15.00	A
ATOM	887	CA	ARG	207	-9.309	6.823	-2.992	1.00	10.45	A
ATOM	888	CB	ARG	207	-9.974	7.790	-3.904	1.00	8.71	A
ATOM	889	CG	ARG	207	-11.258	8.270	-3.357	1.00	15.68	A
ATOM	890	CD	ARG	207	-11.652	9.459	-4.163	1.00	22.25	A
ATOM	891	NE	ARG	207	-12.670	9.192	-5.171	1.00	29.59	A
ATOM	892	HE	ARG	207	-13.115	8.300	-5.249	1.00	15.00	A
ATOM	893	CZ	ARG	207	-13.063	10.272	-5.919	1.00	40.09	A
ATOM	894	NH1	ARG	207	-12.482	11.498	-5.813	1.00	36.32	A
ATOM	895	HH11	ARG	207	-12.813	12.246	-6.391	1.00	15.00	A
ATOM	896	HH12	ARG	207	-11.737	11.651	-5.165	1.00	15.00	A
ATOM	897	NH2	ARG	207	-14.067	10.111	-6.773	1.00	40.86	A
ATOM	898	HH21	ARG	207	-14.392	10.877	-7.329	1.00	15.00	A
ATOM	899	HH22	ARG	207	-14.498	9.207	-6.853	1.00	15.00	A

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FIGURE 17P

ATOM	900	C	ARG	207	-8.044	6.456	-3.741	1.00	12.59	A
ATOM	901	O	ARG	207	-7.053	7.150	-3.787	1.00	15.58	A
ATOM	902	N	ALA	208	-8.096	5.358	-4.465	1.00	17.06	A
ATOM	903	H	ALA	208	-8.879	4.758	-4.355	1.00	15.00	A
ATOM	904	CA	ALA	208	-7.025	5.128	-5.465	1.00	17.00	A
ATOM	905	CB	ALA	208	-6.052	4.020	-5.072	1.00	14.69	A
ATOM	906	C	ALA	208	-7.544	4.830	-6.854	1.00	20.46	A
ATOM	907	O	ALA	208	-8.438	4.020	-7.057	1.00	21.89	A
ATOM	908	N	ALA	209	-6.986	5.586	-7.808	1.00	26.22	A
ATOM	909	H	ALA	209	-6.280	6.235	-7.533	1.00	15.00	A
ATOM	910	CA	ALA	209	-7.253	5.208	-9.196	1.00	28.06	A
ATOM	911	CB	ALA	209	-7.702	6.380	-10.069	1.00	27.10	A
ATOM	912	C	ALA	209	-6.075	4.461	-9.832	1.00	32.54	A
ATOM	913	O	ALA	209	-4.895	4.726	-9.593	1.00	33.00	A
ATOM	914	N	ASN	210	-6.502	3.491	-10.634	1.00	32.11	A
ATOM	915	H	ASN	210	-7.466	3.249	-10.531	1.00	15.00	A
ATOM	916	CA	ASN	210	-5.674	2.893	-11.662	1.00	36.00	A
ATOM	917	CB	ASN	210	-5.366	1.446	-11.355	1.00	39.53	A
ATOM	918	CG	ASN	210	-4.463	1.366	-10.154	1.00	42.59	A
ATOM	919	OD1	ASN	210	-4.285	2.273	-9.342	1.00	39.26	A
ATOM	920	ND2	ASN	210	-3.951	0.165	-10.055	1.00	41.77	A
ATOM	921	HD21	ASN	210	-3.990	-0.479	-10.817	1.00	15.00	A
ATOM	922	HD22	ASN	210	-3.364	-0.081	-9.279	1.00	15.00	A
ATOM	923	C	ASN	210	-6.299	2.931	-13.043	1.00	36.95	A
ATOM	924	O	ASN	210	-7.492	2.752	-13.259	1.00	36.93	A
ATOM	925	N	THR	211	-5.447	3.168	-14.013	1.00	37.83	A
ATOM	926	H	THR	211	-4.484	3.377	-13.821	1.00	15.00	A
ATOM	927	CA	THR	211	-6.119	3.224	-15.314	1.00	41.27	A
ATOM	928	CB	THR	211	-5.325	4.158	-16.268	1.00	44.53	A
ATOM	929	OG1	THR	211	-6.076	4.506	-17.438	1.00	49.34	A
ATOM	930	HG1	THR	211	-6.032	5.493	-17.508	1.00	15.00	A
ATOM	931	CG2	THR	211	-3.926	3.604	-16.581	1.00	46.08	A
ATOM	932	C	THR	211	-6.434	1.833	-15.878	1.00	39.17	A
ATOM	933	O	THR	211	-5.822	0.863	-15.475	1.00	36.48	A
ATOM	934	N	HIS	212	-7.416	1.718	-16.789	1.00	37.14	A
ATOM	935	H	HIS	212	-8.106	2.438	-16.878	1.00	15.00	A
ATOM	936	CA	HIS	212	-7.294	0.454	-17.529	1.00	33.23	A
ATOM	937	CB	HIS	212	-8.680	-0.012	-18.082	1.00	27.73	A
ATOM	938	CG	HIS	212	-9.856	0.060	-17.111	1.00	24.58	A
ATOM	939	ND1	HIS	212	-10.862	0.967	-17.161	1.00	24.59	A
ATOM	940	HD1	HIS	212	-11.000	1.702	-17.794	1.00	15.00	A
ATOM	941	CD2	HIS	212	-10.049	-0.723	-15.985	1.00	20.65	A
ATOM	942	NE2	HIS	212	-11.154	-0.265	-15.383	1.00	24.01	A
ATOM	943	CE1	HIS	212	-11.665	0.780	-16.092	1.00	17.59	A
ATOM	944	C	HIS	212	-6.257	0.633	-18.683	1.00	38.31	A
ATOM	945	O	HIS	212	-5.363	-0.132	-18.923	1.00	33.92	A
ATOM	946	N	SER	213	-6.444	1.737	-19.443	1.00	46.63	A
ATOM	947	H	SER	213	-7.156	2.323	-19.055	1.00	15.00	A
ATOM	948	CA	SER	213	-5.705	2.177	-20.675	1.00	53.91	A
ATOM	949	CB	SER	213	-4.272	2.704	-20.400	1.00	52.61	A
ATOM	950	OG	SER	213	-3.266	1.697	-20.547	1.00	53.97	A
ATOM	951	HG	SER	213	-3.363	1.064	-19.823	1.00	15.00	A
ATOM	952	C	SER	213	-5.844	1.508	-22.097	1.00	60.03	A
ATOM	953	O	SER	213	-5.005	0.811	-22.682	1.00	61.19	A
ATOM	954	N	SER	214	-7.043	1.803	-22.686	1.00	64.96	A
ATOM	955	H	SER	214	-7.705	2.322	-22.146	1.00	15.00	A
ATOM	956	CA	SER	214	-7.463	1.456	-24.094	1.00	69.62	A
ATOM	957	CB	SER	214	8.727	2.218	-24.495	1.00	67.82	A
ATOM	958	OG	SER	214	-9.563	2.257	-23.336	1.00	67.64	A
ATOM	959	HG	SER	214	-10.468	2.398	-23.623	1.00	15.00	A

FIGURE 17Q

ATOM	960	C	SER	214	-6.518	2.587	-25.300	1.00	72.08	A
ATOM	961	O	SER	214	-6.102	2.683	-25.686	1.00	73.45	A
ATOM	962	N	ALA	215	-6.175	0.409	-25.899	1.00	73.38	A
ATOM	963	H	ALA	215	-5.456	0.596	-26.565	1.00	15.00	A
ATOM	964	CA	ALA	215	-6.858	-0.915	-25.753	1.00	72.62	A
ATOM	965	CB	ALA	215	-7.199	-1.505	-27.138	1.00	73.06	A
ATOM	966	C	ALA	215	-6.331	-2.148	-24.983	1.00	72.11	A
ATOM	967	O	ALA	215	-7.020	-3.161	-25.069	1.00	72.74	A
ATOM	968	N	LYS	216	-5.153	-2.076	-24.282	1.00	70.17	A
ATOM	969	H	LYS	216	-4.747	-1.165	-24.199	1.00	15.00	A
ATOM	970	CA	LYS	216	-4.482	-3.256	-23.626	1.00	67.38	A
ATOM	971	CB	LYS	216	-3.458	-2.691	-22.648	1.00	65.30	A
ATOM	972	CG	LYS	216	-2.217	-2.107	-23.321	1.00	66.86	A
ATOM	973	CD	LYS	216	-1.419	-3.149	-24.134	1.00	68.81	A
ATOM	974	CE	LYS	216	-0.082	-2.674	-24.740	1.00	67.51	A
ATOM	975	NZ	LYS	216	0.483	-3.722	-25.598	1.00	67.80	A
ATOM	976	HZ1	LYS	216	0.620	-4.590	-25.041	1.00	15.00	A
ATOM	977	HZ2	LYS	216	-0.168	-3.914	-26.385	1.00	15.00	A
ATOM	978	HZ3	LYS	216	1.401	-3.406	-25.973	1.00	15.00	A
ATOM	979	C	LYS	216	-5.321	-4.441	-22.993	1.00	66.99	A
ATOM	980	O	LYS	216	-6.462	-4.266	-22.575	1.00	69.90	A
ATOM	981	N	PRO	217	-4.835	-5.724	-22.952	1.00	65.06	A
ATOM	982	CD	PRO	217	-3.525	-6.262	-23.308	1.00	67.91	A
ATOM	983	CA	PRO	217	-5.792	-6.827	-22.626	1.00	62.80	A
ATOM	984	CB	PRO	217	-5.285	-8.004	-23.464	1.00	64.33	A
ATOM	985	CG	PRO	217	-3.755	-7.799	-23.338	1.00	69.63	A
ATOM	986	C	PRO	217	-5.837	-7.237	-21.150	1.00	59.77	A
ATOM	987	O	PRO	217	-4.747	-7.318	-20.589	1.00	58.81	A
ATOM	988	N	CYS	218	-7.115	-7.516	-20.627	1.00	55.45	A
ATOM	989	H	CYS	218	-7.874	-7.287	-21.233	1.00	15.00	A
ATOM	990	CA	CYS	218	-7.433	-7.929	-19.210	1.00	46.55	A
ATOM	991	CB	CYS	218	-8.105	-9.289	-19.079	1.00	44.69	A
ATOM	992	SG	CYS	218	-8.855	-9.822	-17.460	1.00	43.11	A
ATOM	993	C	CYS	218	-6.265	-7.994	-18.263	1.00	43.24	A
ATOM	994	O	CYS	218	-5.720	-9.026	-17.959	1.00	44.68	A
ATOM	995	N	GLY	219	-5.853	-6.820	-17.876	1.00	40.28	A
ATOM	996	H	GLY	219	-6.328	-5.961	-18.059	1.00	15.00	A
ATOM	997	CA	GLY	219	-4.659	-6.828	-17.070	1.00	36.27	A
ATOM	998	C	GLY	219	-5.017	-7.080	-15.643	1.00	33.86	A
ATOM	999	O	GLY	219	-5.906	-6.452	-15.097	1.00	34.90	A
ATOM	1000	N	GLN	220	-4.313	-7.996	-15.023	1.00	33.15	A
ATOM	1001	H	GLN	220	-3.835	-8.684	-15.580	1.00	15.00	A
ATOM	1002	CA	GLN	220	-4.448	-7.929	-13.578	1.00	29.92	A
ATOM	1003	CB	GLN	220	-4.298	-9.282	-12.936	1.00	27.91	A
ATOM	1004	CG	GLN	220	-5.380	-9.340	-11.883	1.00	30.94	A
ATOM	1005	CD	GLN	220	-5.285	-10.631	-11.132	1.00	36.37	A
ATOM	1006	OE1	GLN	220	-4.216	-10.969	-10.661	1.00	38.47	A
ATOM	1007	NE2	GLN	220	-6.425	-11.296	-10.977	1.00	37.61	A
ATOM	1008	HE21	GLN	220	-6.295	-12.235	-10.667	1.00	15.00	A
ATOM	1009	HE22	GLN	220	-7.373	-11.036	-11.200	1.00	15.00	A
ATOM	1010	C	GLN	220	-3.666	-6.845	-12.859	1.00	27.48	A
ATOM	1011	O	GLN	220	-2.461	-6.694	-12.999	1.00	27.61	A
ATOM	1012	N	GLN	221	-4.438	-6.040	-12.110	1.00	25.10	A
ATOM	1013	H	GLN	221	-5.433	-6.174	-12.143	1.00	15.00	A
ATOM	1014	CA	GLN	221	-3.803	-4.929	-11.387	1.00	22.41	A
ATOM	1015	CB	GLN	221	-4.077	-3.528	-11.949	1.00	22.12	A
ATOM	1016	CG	GLN	221	-3.284	-3.029	-13.163	1.00	32.16	A
ATOM	1017	CD	GLN	221	-3.795	-1.637	-13.405	1.00	34.69	A
ATOM	1018	OE1	GLN	221	-3.746	-0.763	-12.558	1.00	42.12	A
ATOM	1019	NE2	GLN	221	-4.648	-1.507	-14.398	1.00	34.93	A

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FIGURE 17S

ATOM	1080	N	PHE	229	-7.347	7.299	10.640	1.00	8.88	A
ATOM	1081	H	PHE	229	-7.329	6.332	10.922	1.00	15.00	A
ATOM	1082	CA	PHE	229	-8.566	8.106	10.772	1.00	12.18	A
ATOM	1083	CB	PHE	229	-9.578	7.687	9.686	1.00	8.01	A
ATOM	1084	CG	PHE	229	-9.063	7.912	8.233	1.00	8.40	A
ATOM	1085	CD1	PHE	229	-9.140	9.196	7.649	1.00	10.03	A
ATOM	1086	CD2	PHE	229	-8.433	6.883	7.517	1.00	6.57	A
ATOM	1087	CE1	PHE	229	-8.512	9.443	6.395	1.00	5.18	A
ATOM	1088	CE2	PHE	229	-7.771	7.128	6.282	1.00	4.26	A
ATOM	1089	CZ	PHE	229	-7.813	8.424	5.731	1.00	5.71	A
ATOM	1090	C	PHE	229	-9.202	8.014	12.197	1.00	14.39	A
ATOM	1091	O	PHE	229	-9.116	7.000	12.870	1.00	13.92	A
ATOM	1092	N	GLU	230	-9.863	9.064	12.672	1.00	17.93	A
ATOM	1093	H	GLU	230	-9.912	9.892	12.113	1.00	15.00	A
ATOM	1094	CA	GLU	230	-10.856	8.944	13.770	1.00	18.08	A
ATOM	1095	CB	GLU	230	-11.218	10.303	14.393	1.00	16.17	A
ATOM	1096	CG	GLU	230	-11.068	10.090	15.889	1.00	27.69	A
ATOM	1097	CD	GLU	230	-12.314	10.091	16.805	1.00	33.06	A
ATOM	1098	OE1	GLU	230	-13.355	10.707	16.552	1.00	38.26	A
ATOM	1099	OE2	GLU	230	-12.218	9.477	17.863	1.00	38.14	A
ATOM	1100	C	GLU	230	-12.225	8.268	13.453	1.00	18.70	A
ATOM	1101	O	GLU	230	-12.967	8.519	12.492	1.00	21.58	A
ATOM	1102	N	LEU	231	-12.542	7.334	14.361	1.00	13.79	A
ATOM	1103	H	LEU	231	-11.840	7.125	15.015	1.00	15.00	A
ATOM	1104	CA	LEU	231	-13.885	6.836	14.330	1.00	13.52	A
ATOM	1105	CB	LEU	231	-13.954	5.378	14.002	1.00	13.90	A
ATOM	1106	CG	LEU	231	-13.199	5.064	12.725	1.00	15.44	A
ATOM	1107	CD1	LEU	231	-13.781	5.712	11.436	1.00	10.24	A
ATOM	1108	CD2	LEU	231	-12.970	3.569	12.769	1.00	11.74	A
ATOM	1109	C	LEU	231	-14.638	7.074	15.591	1.00	14.88	A
ATOM	1110	O	LEU	231	-14.145	6.912	16.692	1.00	12.46	A
ATOM	1111	N	GLN	232	-15.891	7.411	15.350	1.00	19.40	A
ATOM	1112	H	GLN	232	-16.107	7.560	14.394	1.00	15.00	A
ATOM	1113	CA	GLN	232	-16.920	7.509	16.389	1.00	21.07	A
ATOM	1114	CB	GLN	232	-18.132	8.234	15.804	1.00	23.55	A
ATOM	1115	CG	GLN	232	-17.792	9.709	15.687	1.00	28.60	A
ATOM	1116	CD	GLN	232	-17.625	10.200	17.102	1.00	33.66	A
ATOM	1117	OE1	GLN	232	-18.623	10.472	17.742	1.00	38.08	A
ATOM	1118	NE2	GLN	232	-16.380	10.254	17.596	1.00	33.41	A
ATOM	1119	HE21	GLN	232	-15.596	10.186	16.972	1.00	15.00	A
ATOM	1120	HE22	GLN	232	-16.387	10.470	18.576	1.00	15.00	A
ATOM	1121	C	GLN	232	-17.402	6.148	16.851	1.00	21.86	A
ATOM	1122	O	GLN	232	-17.368	5.218	16.052	1.00	21.58	A
ATOM	1123	N	PRO	233	-17.906	6.013	18.115	1.00	22.31	A
ATOM	1124	CD	PRO	233	-17.962	7.033	19.168	1.00	21.41	A
ATOM	1125	CA	PRO	233	-18.570	4.747	18.442	1.00	21.21	A
ATOM	1126	CB	PRO	233	-19.013	4.987	19.866	1.00	23.88	A
ATOM	1127	CG	PRO	233	-18.661	6.404	20.339	1.00	20.95	A
ATOM	1128	C	PRO	233	-19.667	4.417	17.434	1.00	23.66	A
ATOM	1129	O	PRO	233	-20.275	5.319	16.875	1.00	26.89	A
ATOM	1130	N	GLY	234	-19.731	3.140	17.059	1.00	22.77	A
ATOM	1131	H	GLY	234	-19.082	2.466	17.417	1.00	15.00	A
ATOM	1132	CA	GLY	234	-20.766	2.767	16.072	1.00	19.45	A
ATOM	1133	C	GLY	234	-20.545	3.241	14.625	1.00	19.67	A
ATOM	1134	O	GLY	234	-21.299	2.980	13.715	1.00	23.81	A
ATOM	1135	N	ALA	235	-19.405	3.926	14.368	1.00	18.89	A
ATOM	1136	H	ALA	235	-19.096	4.485	15.135	1.00	15.00	A
ATOM	1137	CA	ALA	235	-18.431	3.515	13.296	1.00	22.17	A
ATOM	1138	CB	ALA	235	-18.193	2.042	13.039	1.00	6.68	A
ATOM	1139	C	ALA	235	-18.540	4.160	11.993	1.00	21.96	A



**FIGURE 17T**

ATOM	1140	O	ALA	235	-18.486	5.385	12.100	1.00	26.42	A
ATOM	1141	N	SER	236	-18.699	3.498	10.787	1.00	20.94	A
ATOM	1142	H	SER	236	-18.824	4.326	10.254	1.00	18.00	A
ATOM	1143	CA	SER	236	-18.630	2.227	9.961	1.00	17.60	A
ATOM	1144	CB	SER	236	-19.905	1.876	9.160	1.00	14.98	A
ATOM	1145	OG	SER	236	-20.662	0.908	9.833	1.00	21.35	A
ATOM	1146	HG	SER	236	-21.599	0.910	9.647	1.00	15.00	A
ATOM	1147	C	SER	236	-17.794	2.538	8.714	1.00	13.65	A
ATOM	1148	O	SER	236	-17.939	3.614	8.131	1.00	16.29	A
ATOM	1149	N	VAL	237	-16.986	1.567	8.286	1.00	14.95	A
ATOM	1150	H	VAL	237	-16.764	0.823	8.949	1.00	25.00	A
ATOM	1151	CA	VAL	237	-16.201	1.802	7.077	1.00	11.42	A
ATOM	1152	CB	VAL	237	-14.681	2.004	7.284	1.00	12.49	A
ATOM	1153	CG1	VAL	237	-14.113	0.726	7.939	1.00	13.10	A
ATOM	1154	CG2	VAL	237	-14.254	3.396	7.846	1.00	10.27	A
ATOM	1155	C	VAL	237	-16.468	0.746	6.035	1.00	8.76	A
ATOM	1156	O	VAL	237	-16.827	-0.363	6.341	1.00	12.84	A
ATOM	1157	N	PHE	238	-16.354	1.158	4.773	1.00	12.45	A
ATOM	1158	H	PHE	238	-16.139	2.128	4.652	1.00	15.00	A
ATOM	1159	CA	PHE	238	-16.521	0.213	3.653	1.00	11.21	A
ATOM	1160	CB	PHE	238	-18.013	0.137	3.322	1.00	13.00	A
ATOM	1161	CG	PHE	238	-18.634	1.466	2.899	1.00	12.17	A
ATOM	1162	CD1	PHE	238	-18.763	1.812	1.518	1.00	12.94	A
ATOM	1163	CD2	PHE	238	-19.135	2.332	3.887	1.00	10.55	A
ATOM	1164	CE1	PHE	238	-19.407	3.010	1.092	1.00	14.01	A
ATOM	1165	CE2	PHE	238	-19.786	3.504	3.470	1.00	12.74	A
ATOM	1166	CZ	PHE	238	-19.917	3.836	2.100	1.00	13.17	A
ATOM	1167	C	PHE	238	-15.725	0.582	2.379	1.00	11.20	A
ATOM	1168	O	PHE	238	-15.137	1.638	2.267	1.00	8.73	A
ATOM	1169	N	VAL	239	-15.726	-0.300	1.383	1.00	14.34	A
ATOM	1170	H	VAL	239	-16.187	-1.170	1.523	1.00	15.00	A
ATOM	1171	CA	VAL	239	-14.982	0.027	0.154	1.00	14.65	A
ATOM	1172	CB	VAL	239	-13.900	-1.043	-0.162	1.00	14.09	A
ATOM	1173	CG1	VAL	239	-13.004	-1.318	1.038	1.00	14.55	A
ATOM	1174	CG2	VAL	239	-13.064	-0.594	-1.361	1.00	14.74	A
ATOM	1175	C	VAL	239	-15.930	0.081	-1.043	1.00	18.32	A
ATOM	1176	O	VAL	239	-16.558	-0.903	-1.369	1.00	18.99	A
ATOM	1177	N	ASN	240	-16.000	1.207	-1.707	1.00	19.26	A
ATOM	1178	H	ASN	240	-15.420	1.947	-1.383	1.00	15.00	A
ATOM	1179	CA	ASN	240	-16.613	1.355	-3.031	1.00	21.66	A
ATOM	1180	CB	ASN	240	-16.850	2.856	-3.095	1.00	24.58	A
ATOM	1181	CG	ASN	240	-18.167	3.077	-3.708	1.00	29.09	A
ATOM	1182	OD1	ASN	240	-18.948	2.123	-3.740	1.00	35.44	A
ATOM	1183	ND2	ASN	240	-18.293	4.331	-4.166	1.00	34.71	A
ATOM	1184	HD21	ASN	240	-19.149	4.489	-4.657	1.00	15.00	A
ATOM	1185	C	ASN	240	-15.669	0.950	-4.184	1.00	20.96	A
ATOM	1186	O	ASN	240	-14.473	1.128	-4.058	1.00	20.99	A
ATOM	1187	N	VAL	241	-16.189	0.383	-5.275	1.00	21.52	A
ATOM	1188	H	VAL	241	-17.182	0.230	-5.295	1.00	15.00	A
ATOM	1189	CA	VAL	241	-15.387	0.439	-6.516	1.00	20.56	A
ATOM	1190	CB	VAL	241	-14.581	-0.850	-6.849	1.00	18.02	A
ATOM	1191	CG1	VAL	241	-15.501	-2.058	-7.063	1.00	15.06	A
ATOM	1192	CG2	VAL	241	-13.597	-1.259	-5.764	1.00	20.05	A
ATOM	1193	C	VAL	241	-16.253	0.758	-7.741	1.00	18.88	A
ATOM	1194	O	VAL	241	-17.441	0.500	-7.819	1.00	18.63	A
ATOM	1195	N	THR	242	-15.541	1.162	-8.762	1.00	21.24	A
ATOM	1196	H	THR	242	-14.704	1.653	-8.486	1.00	15.00	A
ATOM	1197	CA	THR	242	-16.246	1.476	-10.031	1.00	20.63	A
ATOM	1198	CB	THR	242	-15.342	2.269	-10.981	1.00	15.80	A
ATOM	1199	CG1	THR	242	-14.035	1.663	-10.953	1.00	17.72	A

FIGURE 17U

ATOM	1200	HG1	THR	242	-13.721	1.969	-11.812	1.00	18.00	A
ATOM	1201	CG2	THR	242	-15.239	3.732	-10.650	1.00	18.04	A
ATOM	1202	O	THR	242	-16.755	0.240	-10.793	1.00	18.92	A
ATOM	1203	O	THR	242	-17.846	0.198	-11.297	1.00	21.26	A
ATOM	1204	N	ASP	243	-15.923	-0.806	-10.718	1.00	20.98	A
ATOM	1205	H	ASP	243	-15.087	-0.580	-10.221	1.00	19.00	A
ATOM	1206	CA	ASP	243	-16.092	-1.977	-11.628	1.00	21.28	A
ATOM	1207	CB	ASP	243	-14.905	-2.126	-12.594	1.00	22.05	A
ATOM	1208	CG	ASP	243	-14.932	-0.954	-13.492	1.00	28.23	A
ATOM	1209	OD1	ASP	243	-14.314	0.051	-13.115	1.00	28.43	A
ATOM	1210	OD2	ASP	243	-15.588	-1.033	-14.535	1.00	33.00	A
ATOM	1211	C	ASP	243	-16.123	-3.308	-10.923	1.00	20.38	A
ATOM	1212	O	ASP	243	-15.148	-4.072	-10.967	1.00	20.43	A
ATOM	1213	N	PRO	244	-17.204	-3.553	-10.154	1.00	19.92	A
ATOM	1214	CD	PRO	244	-18.481	-2.871	-10.071	1.00	16.83	A
ATOM	1215	CA	PRO	244	-17.120	-4.706	-9.269	1.00	19.13	A
ATOM	1216	CB	PRO	244	-18.293	-4.535	-8.275	1.00	15.33	A
ATOM	1217	CG	PRO	244	-18.890	-3.174	-8.634	1.00	15.21	A
ATOM	1218	C	PRO	244	-16.975	-6.034	-9.974	1.00	19.29	A
ATOM	1219	O	PRO	244	-16.194	-6.859	-9.548	1.00	23.48	A
ATOM	1220	N	SER	245	-17.581	-6.163	-11.150	1.00	22.60	A
ATOM	1221	H	SER	245	-18.220	-5.459	-11.473	1.00	15.00	A
ATOM	1222	CA	SER	245	-17.414	-7.429	-11.942	1.00	25.50	A
ATOM	1223	CB	SER	245	-18.256	-7.369	-13.234	1.00	21.36	A
ATOM	1224	OG	SER	245	-19.667	-7.567	-12.981	1.00	38.26	A
ATOM	1225	HG	SER	245	-19.848	-7.390	-12.038	1.00	15.00	A
ATOM	1226	C	SER	245	-15.955	-7.776	-12.328	1.00	24.14	A
ATOM	1227	O	SER	245	-15.477	-8.859	-12.623	1.00	24.84	A
ATOM	1228	N	GLN	246	-15.177	-6.689	-12.385	1.00	28.52	A
ATOM	1229	H	GLN	246	-15.638	-5.804	-12.265	1.00	15.00	A
ATOM	1230	CA	GLN	246	-13.743	-6.923	-12.590	1.00	26.45	A
ATOM	1231	CB	GLN	246	-13.144	-5.645	-13.233	1.00	29.90	A
ATOM	1232	CG	GLN	246	-13.403	-5.435	-14.758	1.00	26.84	A
ATOM	1233	CD	GLN	246	-14.862	-5.341	-15.129	1.00	21.60	A
ATOM	1234	OE1	GLN	246	-15.538	-4.503	-14.616	1.00	24.20	A
ATOM	1235	NE2	GLN	246	-15.334	-6.234	-15.975	1.00	26.15	A
ATOM	1236	HE21	GLN	246	-14.763	-6.924	-16.423	1.00	15.00	A
ATOM	1237	HE22	GLN	246	-16.320	-6.119	-16.084	1.00	15.00	A
ATOM	1238	C	GLN	246	-12.936	-7.372	-11.363	1.00	27.14	A
ATOM	1239	O	GLN	246	-11.721	-7.570	-11.454	1.00	25.73	A
ATOM	1240	N	VAL	247	-13.615	-7.395	-10.196	1.00	23.70	A
ATOM	1241	H	VAL	247	-14.600	-7.594	-10.146	1.00	15.00	A
ATOM	1242	CA	VAL	247	-12.728	-7.569	-9.097	1.00	21.91	A
ATOM	1243	CB	VAL	247	-13.156	-6.814	-7.859	1.00	21.59	A
ATOM	1244	CG1	VAL	247	-14.027	-7.616	-6.962	1.00	24.52	A
ATOM	1245	CG2	VAL	247	-13.690	-5.409	-8.167	1.00	21.61	A
ATOM	1246	C	VAL	247	-12.258	-8.998	-8.910	1.00	21.55	A
ATOM	1247	O	VAL	247	-12.946	-9.912	-9.251	1.00	19.53	A
ATOM	1248	N	SER	248	-11.000	-9.152	-8.444	1.00	21.31	A
ATOM	1249	H	SER	248	-10.558	-8.342	-8.070	1.00	15.00	A
ATOM	1250	CA	SER	248	-10.414	-10.499	-8.327	1.00	21.97	A
ATOM	1251	CB	SER	248	-8.939	-10.571	-8.828	1.00	23.61	A
ATOM	1252	OG	SER	248	-8.860	-9.952	-10.128	1.00	20.21	A
ATOM	1253	HG	SER	248	-9.752	-10.027	-10.496	1.00	15.00	A
ATOM	1254	C	SER	248	-10.538	-11.076	-6.946	1.00	19.28	A
ATOM	1255	O	SER	248	-10.048	-10.409	-6.052	1.00	20.64	A
ATOM	1256	N	HIS	249	-11.269	-12.204	-6.814	1.00	18.72	A
ATOM	1257	H	HIS	249	-11.284	-12.753	-7.674	1.00	15.00	A
ATOM	1258	CA	HIS	249	-11.640	-12.673	-5.478	1.00	17.22	A
ATOM	1259	CB	HIS	249	-13.080	-13.152	-5.484	1.00	13.10	A

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**FIGURE 17V**

ATOM	1260	CG	HIS	249	-13.919	-11.905	-5.550	1.00	10.13	A
ATOM	1261	ND1	HIS	249	-14.137	-11.129	-4.486	1.00	13.47	A
ATOM	1262	HD1	HIS	249	-13.720	-11.294	-3.611	1.00	15.00	A
ATOM	1263	CD2	HIS	249	-14.662	-11.414	-6.610	1.00	10.62	A
ATOM	1264	NE2	HIS	249	-15.317	-10.347	-6.134	1.00	15.51	A
ATOM	1265	CE1	HIS	249	-15.018	-10.142	-4.621	1.00	12.36	A
ATOM	1266	C	HIS	249	-10.701	-13.683	-4.858	1.00	23.58	A
ATOM	1267	O	HIS	249	-11.103	-14.729	-4.359	1.00	21.98	A
ATOM	1268	N	GLY	250	-9.398	-13.258	-4.878	1.00	29.10	A
ATOM	1269	H	GLY	250	-9.252	-12.351	-5.253	1.00	15.00	A
ATOM	1270	CA	GLY	250	-8.410	-14.041	-4.115	1.00	24.27	A
ATOM	1271	C	GLY	250	-8.336	-15.372	-4.743	1.00	25.93	A
ATOM	1272	O	GLY	250	-8.940	-15.520	-5.795	1.00	29.26	A
ATOM	1273	N	THR	251	-7.594	-16.302	-4.127	1.00	22.38	A
ATOM	1274	H	THR	251	-7.485	-17.038	-4.804	1.00	15.00	A
ATOM	1275	CA	THR	251	-7.111	-16.139	-2.725	1.00	21.12	A
ATOM	1276	CB	THR	251	-6.988	-17.525	-1.933	1.00	24.76	A
ATOM	1277	OG1	THR	251	-5.877	-17.641	-0.981	1.00	22.90	A
ATOM	1278	HG1	THR	251	-6.063	-18.366	-0.381	1.00	15.00	A
ATOM	1279	CG2	THR	251	-6.968	-18.722	-2.890	1.00	22.77	A
ATOM	1280	C	THR	251	-5.952	-15.158	-2.473	1.00	17.96	A
ATOM	1281	O	THR	251	-4.969	-15.043	-3.213	1.00	12.30	A
ATOM	1282	N	GLY	252	-6.241	-14.367	-1.419	1.00	16.85	A
ATOM	1283	H	GLY	252	-7.093	-14.432	-0.862	1.00	15.00	A
ATOM	1284	CA	GLY	252	-5.277	-13.375	-0.928	1.00	13.16	A
ATOM	1285	C	GLY	252	-5.357	-12.058	-1.670	1.00	15.51	A
ATOM	1286	O	GLY	252	-4.580	-11.168	-1.439	1.00	15.18	A
ATOM	1287	N	PHE	253	-6.189	-12.063	-2.744	1.00	16.66	A
ATOM	1288	H	PHE	253	-6.868	-12.805	-2.761	1.00	15.00	A
ATOM	1289	CA	PHE	253	-6.110	-10.892	-3.651	1.00	15.77	A
ATOM	1290	CB	PHE	253	-6.649	-11.216	-5.100	1.00	17.11	A
ATOM	1291	CG	PHE	253	-5.595	-11.840	-5.994	1.00	11.82	A
ATOM	1292	CD1	PHE	253	-4.385	-11.175	-6.231	1.00	13.69	A
ATOM	1293	CD2	PHE	253	-5.845	-13.089	-6.558	1.00	18.59	A
ATOM	1294	CE1	PHE	253	-3.364	-11.771	-6.993	1.00	14.39	A
ATOM	1295	CE2	PHE	253	-4.840	-13.680	-7.363	1.00	21.37	A
ATOM	1296	CZ	PHE	253	-3.612	-13.014	-7.562	1.00	15.72	A
ATOM	1297	C	PHE	253	-6.740	-9.599	-3.147	1.00	13.88	A
ATOM	1298	O	PHE	253	-6.347	-8.477	-3.453	1.00	14.27	A
ATOM	1299	N	THR	254	-7.865	-9.837	-2.502	1.00	14.00	A
ATOM	1300	H	THR	254	-8.079	-10.748	-2.124	1.00	15.00	A
ATOM	1301	CA	THR	254	-8.741	-8.681	-2.185	1.00	14.09	A
ATOM	1302	CB	THR	254	-9.908	-8.469	-3.201	1.00	11.66	A

FIGURE 17W

ATOM	1320	CG	PHE	256	-12.376	-3.824	4.235	1.00	8.72	A
ATOM	1321	CD1	PHE	256	-11.766	-2.570	4.533	1.00	11.20	A
ATOM	1322	CD2	PHE	256	-13.756	-3.976	4.327	1.00	6.12	A
ATOM	1323	CE1	PHE	256	-12.503	-1.490	5.034	1.00	11.49	A
ATOM	1324	CE2	PHE	256	-14.514	-2.849	4.734	1.00	6.86	A
ATOM	1325	CZ	PHE	256	-13.862	-1.657	5.211	1.00	9.27	A
ATOM	1326	C	PHE	256	-9.933	-5.268	5.560	1.00	11.92	A
ATOM	1327	O	PHE	256	-10.195	-6.290	6.177	1.00	9.43	A
ATOM	1328	N	GLY	257	-9.420	-4.207	6.169	1.00	10.57	A
ATOM	1329	H	GLY	257	-9.217	-3.365	5.653	1.00	15.00	A
ATOM	1330	CA	GLY	257	-9.368	-4.406	7.612	1.00	11.26	A
ATOM	1331	C	GLY	257	-8.965	-3.122	8.287	1.00	11.14	A
ATOM	1332	O	GLY	257	-8.916	-2.068	7.679	1.00	10.81	A
ATOM	1333	N	LEU	258	-8.688	-3.277	9.565	1.00	12.61	A
ATOM	1334	H	LEU	258	-8.776	-4.204	9.943	1.00	15.00	A
ATOM	1335	CA	LEU	258	-8.434	-2.098	10.426	1.00	14.72	A
ATOM	1336	CB	LEU	258	-9.751	-1.212	10.704	1.00	14.67	A
ATOM	1337	CG	LEU	258	-10.991	-1.863	11.379	1.00	18.02	A
ATOM	1338	CD1	LEU	258	-12.317	-1.125	11.094	1.00	15.05	A
ATOM	1339	CD2	LEU	258	-10.743	-2.047	12.905	1.00	15.42	A
ATOM	1340	C	LEU	258	-7.737	-2.525	11.709	1.00	11.84	A
ATOM	1341	O	LEU	258	-7.851	-3.690	12.096	1.00	7.91	A
ATOM	1342	N	LEU	259	-7.058	-1.537	12.343	1.00	11.64	A
ATOM	1343	H	LEU	259	-6.883	-0.685	11.844	1.00	15.00	A
ATOM	1344	CA	LEU	259	-6.581	-1.780	13.714	1.00	9.53	A
ATOM	1345	CB	LEU	259	-5.155	-2.417	13.831	1.00	7.40	A
ATOM	1346	CG	LEU	259	-4.194	-1.621	12.931	1.00	11.40	A
ATOM	1347	CD1	LEU	259	-3.355	-2.412	11.926	1.00	7.83	A
ATOM	1348	CD2	LEU	259	-3.379	-0.670	13.808	1.00	13.30	A
ATOM	1349	C	LEU	259	-6.652	-0.497	14.531	1.00	10.40	A
ATOM	1350	O	LEU	259	-6.202	0.556	14.082	1.00	9.73	A
ATOM	1351	N	LYS	260	-7.193	-0.629	15.762	1.00	12.00	A
ATOM	1352	H	LYS	260	-7.395	-1.553	16.115	1.00	15.00	A
ATOM	1353	CA	LYS	260	-7.069	0.521	16.693	1.00	13.51	A
ATOM	1354	CB	LYS	260	-8.014	0.312	17.885	1.00	13.49	A
ATOM	1355	CG	LYS	260	-8.378	1.656	18.521	1.00	17.16	A
ATOM	1356	CD	LYS	260	-9.435	1.456	19.596	1.00	12.01	A
ATOM	1357	CE	LYS	260	-10.151	2.681	20.121	1.00	11.41	A
ATOM	1358	NZ	LYS	260	-9.175	3.595	20.697	1.00	13.33	A
ATOM	1359	HZ1	LYS	260	-8.534	3.932	19.954	1.00	15.00	A
ATOM	1360	HZ2	LYS	260	-9.693	4.404	21.095	1.00	15.00	A
ATOM	1361	HZ3	LYS	260	-8.638	3.136	21.458	1.00	15.00	A
ATOM	1362	C	LYS	260	-5.648	0.921	17.125	1.00	16.54	A
ATOM	1363	O	LYS	260	-4.828	0.112	17.481	1.00	15.61	A
ATOM	1364	N	LEU	261	-5.353	2.199	17.015	1.00	14.78	A
ATOM	1365	H	LEU	261	-6.089	2.838	16.856	1.00	15.00	A
ATOM	1366	CB	LEU	261	-3.705	4.005	17.185	1.00	19.53	A
ATOM	1367	CG	LEU	261	-3.177	4.309	15.787	1.00	16.82	A
ATOM	1368	CD1	LEU	261	-3.010	5.779	15.767	1.00	12.45	A
ATOM	1369	CD2	LEU	261	-4.010	3.906	14.577	1.00	18.20	A
ATOM	1370	C	LEU	261	-4.243	2.667	19.225	1.00	20.80	A
ATOM	1371	OCT1	LEU	261	-5.363	2.741	19.746	1.00	22.59	A
ATOM	1372	OCT2	LEU	261	-3.221	2.696	19.913	1.00	26.97	A
ATOM	1373	CA	LEU	261	-4.122	2.604	17.684	1.00	18.13	A
ATOM	1374	C	HOH	501	-20.040	9.837	7.596	1.00	16.33	W
ATOM	1375	H1	HOH	501	-19.411	10.547	7.803	1.00	10.00	W
ATOM	1376	H2	HOH	501	-19.615	9.317	6.900	1.00	10.00	W
ATOM	1377	O	HOH	502	-9.727	11.545	10.743	1.00	10.94	W
ATOM	1378	H1	HOH	502	-10.039	11.934	9.919	1.00	15.00	W
ATOM	1379	H2	HOH	502	-10.233	12.125	11.315	1.00	15.00	W

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**FIGURE 17X**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

**FIGURE 17Y**

M M M M M M M M M M M M M M M M M M M M M